

## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Print Date: 03.12.2009

Revision Date : 29.01.2008

Version : 2.0

REG\_EU / EN

Commercial Product Name: **RESIMENE AQ-7551**

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

#### Product information

Commercial Product Name : RESIMENE AQ-7551  
MSDS Number : 888100005826  
Company : **INEOS Melamines GmbH**  
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Germany  
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#### Use

Specific use(s) : Binding agent

### 2. HAZARDS IDENTIFICATION

#### Risk advice to man and the environment



Symbol(s) : Xi Irritant

R-phrases(s) : R43 May cause sensitization by skin contact.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Chemical nature

Methylated melamine formaldehyde resin

#### Hazardous components

Chemical Name	CAS-No.	EC-No./ Registration number	Classification	Concentration [%]
methanol	67-56-1	200-659-6	F; R11	0,75 - < 1

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			T; R23/24/25 - R39/23/24/25	
Formaldehyde	50-00-0	200-001-8	R40; Carc.Cat.3 T; R23/24/25 C; R34 R43	0,2 - < 0,5

### 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.
- Ingestion : 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.

### 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Water spray  
Foam  
Carbon dioxide (CO2)  
Dry chemical
- Extinguishing media which shall not be used for safety reasons : High volume water jet
- Specific hazards during fire fighting : Fire will produce dense black smoke containing hazardous combustion products (see section 10).
- Special protective equipment for fire-fighters : Please wear suitable respiratory protection equipment.

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Further information : 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

Personal precautions : Ventilate the area.  
Avoid inhalation of vapour or mist.  
Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Should not be released into the environment.  
Avoid subsoil penetration.  
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Flush away traces with water.

Additional advice : 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.

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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 feedingstuffs.  
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	Basis	Update
methanol	67-56-1	TWA: 260 mg/m3, 200 ppm	H	EU ELV	02 2006

### **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 manufacturer.

Eye protection : Tightly fitting safety goggles

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<u>Skin and body protection</u>	:	impervious clothing
<u>Hygiene measures</u>	:	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.

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### **9. PHYSICAL AND CHEMICAL PROPERTIES**

#### **Appearance**

<u>Form</u>	:	Aqueous solution
<u>Colour</u>	:	colourless
<u>Odour</u>	:	formaldehyde

#### **Safety data**

<u>pH</u>	:	9,0 - 10,0 at (23 °C) (undiluted)
<u>Boiling point/boiling range</u>	:	ca.100 °C
<u>Flash point</u>	:	> 100 °C Method: ISO 2719
<u>Density</u>	:	ca.1,252 - 1,288 g/cm3 at 25 °C Method: DIN 12791
<u>Water solubility</u>	:	soluble
<u>Viscosity, dynamic</u>	:	700 - 1.400 mPa.s at 23 °C Method: ISO 3219

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### **10. STABILITY AND REACTIVITY**

<u>Materials to avoid</u>	:	Strong acids and strong bases
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### Oxidizing agents

#### Hazardous decomposition products

: Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke.  
Ammonia  
Alcohols  
Formaldehyde

#### Thermal decomposition

: No decomposition if used as directed.

## 11. TOXICOLOGICAL INFORMATION

#### Acute oral toxicity

: LD50 rat  
Dose: > 5.000 mg/kg  
Method: OECD Test Guideline 401  
The toxicological data has been taken from products of similar composition.

#### Skin irritation

: rabbit  
Result: No skin irritation  
Exposure time: 4 h  
Method: OECD Test Guideline 404  
The toxicological data has been taken from products of similar composition.

#### Eye irritation

: rabbit  
Result: No eye irritation  
Method: OECD Test Guideline 405  
The toxicological data has been taken from products of similar composition.

#### Sensitisation

: May cause sensitization by skin contact.

#### Further information

: The product is classified and labelled in accordance with Directive 1999/45/EC.

#### Components: methanol

67-56-1

Acute oral toxicity: LD50 rat  
Dose: 5.628 mg/kg

Acute inhalation toxicity: LC50 rat  
Dose: 85 mg/l  
Exposure time: 4 h

Skin irritation: Result: Mild skin irritation

Eye irritation: Classification: Irritating to eyes.

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Result: Mild eye irritation

Formaldehyde

50-00-0

Acute oral toxicity: LD50 rat  
Dose: 100 mg/kg

Acute dermal toxicity: LD50 rabbit  
Dose: 270 mg/kg

Acute inhalation toxicity: LC50 rat  
Dose: 250 - 478 mg/l  
Exposure time: 4 h

Skin irritation: Classification: Irritating to skin.  
Result: Skin irritation

Eye irritation: Classification: Irritating to eyes.  
Result: Risk of serious damage to eyes.

Carcinogenicity: Animal experiments showed a statistically significant number of tumours.

Sensitisation: May cause sensitization by skin contact.

## 12. ECOLOGICAL INFORMATION

### Further information on ecology

Adsorbed organic bound halogens (AOX) : not included

Other ecotoxicological advice : The product should not be allowed to enter drains, water courses or the soil.

Components:  
methanol

67-56-1

Acute and prolonged toxicity for aquatic invertebrates:  
EC50  
Species: Daphnia magna (Water flea)  
Dose: > 10.000 mg/l  
Exposure time: 48 h

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### **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 : Remarks:  
Dispose of as unused product.

### **14. TRANSPORT INFORMATION**

#### **Land transport**

**ADR**  
Not dangerous goods

**RID**  
Not dangerous goods

#### **Air transport**

**IATA**  
Not dangerous goods

#### **Sea transport**

**IMDG**  
Not dangerous goods

### **15. REGULATORY INFORMATION**

#### **Labelling according to EC Directives**

Hazardous components which must be listed on the label:

- 50-00-0 Formaldehyde

Symbol(s) : Xi Irritant



R-phrases(s) : R43 May cause sensitization by skin contact.



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S-phrase(s) : S24 Avoid contact with skin.  
S37 Wear suitable gloves.  
S60 This material and/or its container must be disposed of as hazardous waste.

VOC: : Directive 1999/13/EC  
1,3 %  
VOC content less water: 22,71 g/l

Seveso Directive (96/82/EC) : Update: 2003  
Directive 96/82/EC does not apply

### National legislation

### Notification status

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

### **Full text of R-phrases referred to under sections 2 and 3**

R11 Highly flammable.  
R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.  
R34 Causes burns.  
R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.  
R40 Limited evidence of a carcinogenic effect.

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R43

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### Further information

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