

### Material Safety Data Sheet According to 91/155 EC

Printing date 17.10.2013











Reviewed on 19.09.2013

· **Product details**

- **Trade name:** Jewel Cellulose M99
- **Article number:** 869
- **Application of the substance / the preparation** Coating compound/ Surface coating/ paint
- **Manufacturer/Supplier:** Jewel Paints ( West Midlands) Ltd  
Units 313-317 Heath Street Smethwick West Midlands B66 2QY Tel 0121-558-6191

· **Chemical characterization**

- **Description:** Mixture of substances listed below with nonhazardous additions.
- **Dangerous components:**

CAS: 1330-20-7	Xylene (mix)			T, N; R 61-62-33-40-50/53	10-25%
EINECS: 215-535-7				Xn; R 10-20/21-38	10-25%
CAS: 108-88-3	toluene			Xn, F; R 11-20	2.5-10%
EINECS: 203-625-9					
CAS: 67-63-0	propan-2-ol			Xi, F; R 11-36-67	2.5-10%
EINECS: 200-661-7					
CAS: 78-93-3	butanone			Xi, F; R 11-36-66-67	2.5-10%
EINECS: 201-159-0					
CAS: 108-65-6	2-methoxy-1-methylethyl acetate			Xi; R 10-36	2.5-10%
EINECS: 203-603-9					
CAS: 100-41-4	ethylbenzene			Xn, F; R 11-20	£ 2.5%
EINECS: 202-849-4					

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

· **Hazard description:**



T Toxic  
F Highly flammable  
N Dangerous for the environment

· **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

- R 61 May cause harm to the unborn child.
- R 11 Highly flammable.
- R 20/21 Harmful by inhalation and in contact with skin.
- R 33 Danger of cumulative effects.
- R 40 Limited evidence of a carcinogenic effect.

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*R 62 Possible risk of impaired fertility.**R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.***· Classification system:***The classification is according to the latest editions of the EU-lists, and extended by company and literature data.*

### 4 First-aid measures

**· General information:***Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.***· After inhalation:***Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.**In case of unconsciousness place patient stably in side position for transportation.***· After skin contact:** *Generally the product does not irritate the skin.***· After eye contact:** *Rinse opened eye for several minutes under running water. Then consult a doctor.***· After swallowing:** *If symptoms persist consult doctor.*

### 5 Fire-fighting measures

**· Suitable extinguishing agents:***CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.***· Protective equipment:** *Mount respiratory protective device.*

### 6 Accidental release measures

**· Person-related safety precautions:** *Wear protective equipment. Keep unprotected persons away.***· Measures for environmental protection:***Prevent seepage into sewage system, workpits and cellars.**Inform respective authorities in case of seepage into water course or sewage system.**Dilute with plenty of water.**Do not allow to enter sewers/ surface or ground water.***· Measures for cleaning/collecting:***Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).**Dispose contaminated material as waste according to item 13.**Ensure adequate ventilation.*

### 7 Handling and storage

**· Handling:****· Information for safe handling:***Keep receptacles tightly sealed.**Ensure good ventilation/extraction at the workplace.**Open and handle receptacle with care.***· Information about fire - and explosion protection:***Keep ignition sources away - Do not smoke.**Protect against electrostatic charges.**Keep respiratory protective device available.***· Storage:****· Requirements to be met by storerooms and receptacles:** *Store in a cool location.***· Information about storage in one common storage facility:** *Not required.*

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- **Further information about storage conditions:**  
Keep receptacle tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.
- **Class according to regulation on flammable liquids:** B

### 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Ingredients with limit values that require monitoring at the workplace:**

#### 1330-20-7 Xylene (mix)

OES Short-term value: 662 mg/m<sup>3</sup>, 150 ppm  
Long-term value: 441 mg/m<sup>3</sup>, 100 ppm  
Sk

#### 108-88-3 toluene

OES Short-term value: 574 mg/m<sup>3</sup>, 150 ppm  
Long-term value: 191 mg/m<sup>3</sup>, 50 ppm  
Sk

#### 67-63-0 propan-2-ol

OES Short-term value: 1250 mg/m<sup>3</sup>, 500 ppm  
Long-term value: 999 mg/m<sup>3</sup>, 400 ppm

#### 78-93-3 butanone

OES Short-term value: 899 mg/m<sup>3</sup>, 300 ppm  
Long-term value: 600 mg/m<sup>3</sup>, 200 ppm  
Sk, Bmgv

#### 108-65-6 2-methoxy-1-methylethyl acetate

OES Short-term value: 822 mg/m<sup>3</sup>, 150 ppm  
Long-term value: 274 mg/m<sup>3</sup>, 50 ppm  
ILV

#### 100-41-4 ethylbenzene

OES Short-term value: 552 mg/m<sup>3</sup>, 125 ppm  
Long-term value: 441 mg/m<sup>3</sup>, 100 ppm

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

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Store protective clothing separately.  
Avoid contact with the eyes and skin.

- **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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*Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation*

· **Material of gloves**

*The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.*

· **Penetration time of glove material**

*The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.*

· **Eye protection:**



*Tightly sealed goggles*

## 9 Physical and chemical properties

· **General Information**

<b>Form:</b>	<i>Fluid</i>
<b>Colour:</b>	<i>According to product specification</i>
<b>Odour:</b>	<i>Characteristic</i>

· **Change in condition**

**Melting point/Melting range:** *Undetermined.*  
**Boiling point/Boiling range:** *79°C*

· **Flash point:** *-4°C*

· **Ignition temperature:** *425.0°C*

· **Self-igniting:** *Product is not selfigniting.*

· **Danger of explosion:** *Product is not explosive. However, formation of explosive air/vapour mixtures are possible.*

· **Explosion limits:**

<b>Lower:</b>	<i>1.1 Vol %</i>
<b>Upper:</b>	<i>7.0 Vol %</i>

· **Vapour pressure at 20°C:** *6.7 hPa*

· **Density at 20°C:** *1.139 g/cm<sup>3</sup>*

· **Solubility in / Miscibility with water:** *Fully miscible.*

· **Solvent content:**

**Organic solvents:** *55.6 %*

· **Solids content:** *43.0 %*

## 10 Stability and reactivity

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

*No decomposition if used according to specifications.*

· **Dangerous reactions** *No dangerous reactions known.*

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· **Dangerous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

· **Acute toxicity:**

· **LD/LC50 values relevant for classification:**

**Lead chromate molybdate sulfate**

Oral LD50 >5000 mg/kg (rat)

**1330-20-7 Xylene (mix)**

Oral LD50 8700 mg/kg (rat)

Dermal LD50 2000 mg/kg (rbt)

Inhalative LC50/4 h 6350 mg/l (rat)

· **Primary irritant effect:**

· **on the skin:** No irritant effect.

· **on the eye:** No irritating effect.

· **Sensitization:** No sensitizing effects known.

· **Additional toxicological information:**

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

Harmful.

### 12 Ecological information

· **Ecotoxicological effects:**

· **Remark:** Toxic for fish

· **General notes:**

Water danger class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

### 13 Disposal considerations

· **Product:**

· **Recommendation**

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

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

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### 14 Transport information

· Land transport ADR/RID (cross-border)



- ADR/RID class: 3 Flammable liquids.
- Item: 5b
- Danger code (Kemler): 33
- UN-Number: 1263
- Hazard label 3
- Description of goods: 1263 Paint

· Maritime transport IMDG:



- IMDG Class: 3.2
- Page: 3268
- UN Number: 1263
- Packaging group: II
- EMS Number: 3-05
- MFAG: 310,313
- Marine pollutant: No
- Proper shipping name: Paint

· Air transport ICAO-TI and IATA-DGR:



- ICAO/IATA Class: 3
- UN/ID Number: 1263
- Packaging group: II
- Proper shipping name: Paint

### 15 Regulatory information

· Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· Code letter and hazard designation of product:

T Toxic  
F Highly flammable  
N Dangerous for the environment

· Hazard-determining components of labelling:

Lead chromate molybdate sulfate  
Xylene (mix)

· Risk phrases:

61 May cause harm to the unborn child.  
11 Highly flammable.  
20/21 Harmful by inhalation and in contact with skin.

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- 33 *Danger of cumulative effects.*
- 40 *Limited evidence of a carcinogenic effect.*
- 62 *Possible risk of impaired fertility.*
- 51/53 *Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*

**· Safety phrases:**

- 53 *Avoid exposure - obtain special instructions before use.*
- 7/9 *Keep container tightly closed and in a well-ventilated place.*
- 16 *Keep away from sources of ignition - No smoking.*
- 36/37/39 *Wear suitable protective clothing, gloves and eye/face protection.*
- 45 *In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).*
- 57 *Use appropriate container to avoid environmental contamination.*

**· National regulations:****· Classification according to VbF: B****· Technical instructions (air):**

Class	Share in %
II	28.2
III	27.2

**· Waterhazard class: Water danger class 3 (Self-assessment): extremely hazardous for water.**

### 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

**· Relevant R-phrases**

- 10 *Flammable.*
- 11 *Highly flammable.*
- 20 *Harmful by inhalation.*
- 20/21 *Harmful by inhalation and in contact with skin.*
- 33 *Danger of cumulative effects.*
- 36 *Irritating to eyes.*
- 38 *Irritating to skin.*
- 40 *Limited evidence of a carcinogenic effect.*
- 50/53 *Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*
- 61 *May cause harm to the unborn child.*
- 62 *Possible risk of impaired fertility.*
- 66 *Repeated exposure may cause skin dryness or cracking.*
- 67 *Vapours may cause drowsiness and dizziness.*

**· Department issuing MSDS: Product safety department: LABORATORY****· Contact: Health & Safety Officer**

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