

### 1. Chemical Product & Company Identification

Trade name MB111

Brand Name & Code Tulsion

Validation Date 01/03/2017

## 2. Composition/Information on Ingredients

Component	CAS	% by wt.	Exposure Guidelines
Mixture of Strong acid cation Exchange Resin & Strong base Anion Exhange Resin, Type I		30 - 45	None Established
Water	7732 - 18 - 5	55 - 70	

#### 3. Hazards Identification

#### **Protential Health Risks**

Skin Prolonged or repeated exposure not likely to cause any significant

skin irritation. Skin absorption is unlikely due to physical properties.

Eyes Solid or dust may cause irritation or corneal injury due to

mechanical action.

**Inhalation** Vapours are unlikely due to physical properties. No adverse

effects are anticipated from inhalation.

**Ingestion** Single dose oral LD50 has not been determined. Single dose

oral toxicity is believed to be very low. No hazardous anticipated from

ingestion incidental to industrial exposure

#### **Physical/Chemical Effects**

These effects have not been studied thoroughly.

#### 4. First Aid Measures

Skin Flush skin with plenty of water for at least 15 minutes while

removing contaminated clothing and shoes. Get medical aid if irritation

develops or persists.

Eyes Flush eyes thoroughly with water for at least 15 minutes

occasionally lifting upper and lower eyelids. Get medical aid from

preferably an ophthalmologist.

**Inhalation** If inhaled remove to fresh air. If not breathing give artificial

respiration. If breathing is difficult, give oxygen.

**Ingestion** Single dose oral LD50 has not been determined. Single dose

oral toxicity is believed to be very low. No hazardous anticipated from

ingestion incidental to industrial exposure



#### 5. First Aid Measures

Flash point N/A

Auto Ignition temperature 427°C (800°F)

LEL N/A
UEL N/A

Fire Extingguishing Media Water spray, Carbon dioxide, dry chemical powder or appropriate foam

#### **Basic Firefighting Procedure**

Keep people away. Isolate fire area and deny unnecessary entry. Cool surroundings with water to localize fire zone. Wear MSHA/NIOSH approved, pressure demand self-contained breathing apparatus/equipment. ingestion incidental to industrial exposure.

#### **Unusual Fire & Explosion Hazards**

Emits toxic fumes fire conditions

#### 6. Handling & Storage

Personnel precautions Spilled material may cause a slipping hazard. Use appropriate safety

equipment as indicated in point 8 Exposure controls / personnel protection.

Environmental Precautions Prevent from entering into soil, ditches, sewers, waterways, and/or

groundwater. See point No. 12 Ecological information.

#### 7. Exposure Controls

Eye protection Use safety eyeglasses or chemical safety goggles as described by OSHA's eye

& face protection regulations 29 CFR 1910.133 or European standard EN166.

Skin & body protection Wear appropriate gloves & clean body covering clothing to prevent

skin exposure.

Respiratory protection No respiratory protection is needed but whenever necessary always use a

NIOSH or European standard N<sup>149</sup> approved respirator.

#### 8. Exposure Controls

Physical state Solid

Appearance Amber Yellow colour spherical beads

Odourless Odour **Boiling Point** N/A **Melting Point** N/A N/A Freezing oint **Vapour Density** N/A Vapour Pressure at 20°C N/A Insoluble Solubility in water at 30°C Specific gravity (H2O = 1) N/A

Evaporation Rate (BA = 1) N/A
% Volatiles 55-70



### 9. Stability & Reactivity

Stability/Incompatibility Stable under recommended storage conditions. See point 7, Storage

Conditions. Product can decompose at elevated temperatures, so avoid

temperatures above 220°C/428°F

Materials to avoid Avoid contact with strong oxidising agents such as

Nitric acid. Before using strong oxidising agents consult sources knowledgeable in handling such materials. The severity of the reaction with oxidising materials can vary from slight degradation to

an explosive reaction.

**Hazardous Decomposition** 

**Products** 

Hazardous decomposition products depend upon temperature, air supply and the presence of other materials. Haz-ardous decomposition products may

include and not limited to carbon mon-oxide, carbon dioxide, aromatic compounds, hydrocarbons, organic sulfonates and sulphur dioxides.

Hazardous polymerization will not occur.

## 10. Toxicological Information

No data available for this material. The information shown is based on profiles of compositionally similar interests.

Acute No relevant information found

Skin Data not available for this material. Acute dermal toxicity value

for LD50 rabbit > 5000 mg/kg based on data for

similar compositions.

**Eves** No relevant information found.

Ingestion Data not available for this material. Acute oral toxicity value LD50rat

> 5000 mg/kg based on data for similar compositions.

# 11. Ecological Information

mechanically cause adverse effects if ingested by water fowl or aquatic life. No bio concentration of the polymeric component is expected because of its

high molecular weight.

**Environmental Mobility** In the terrestrial environment, material is expected to remain in the soil. In the

aquatic environment material will sink and remain in the sediment.

**Environmental Degradability** Based largely/completely on information for copolymer. Surface photo

degradation is expected with exposure to sunlight. No appreciable

bio degradation is expected.

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biodegradation is expected.



# 13. Disposal Considerations

For used/uncontaminated product, the preferred options include incineration/landfill etc. Used material which has been contaminated with heavy meals or radioactive metals or toxic substances must be treated as per local state and federal regulations.

THE MANUFACTURER OF MB111 TULSION RESIN HAS NO CONTROL OVER THE MANAGEMENT PRACTISES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN POINT NO. 2 OF THIS MSDS.

## 13. Transport Information

Hazard Label Non Hazardous

ADR Non Hazardous for road transport

IMDG Non Hazardous for sea transport

IATA Non Hazardous for air transport

### 14. Regulatory Information

The information shown below is based on profiles of compositionally similar materials.

Hazard Label N/A

Hazard Category Indication of Danger – XI – Irritant

**Risk Phrase** 36 (Irritating to eyes)

Safety Phrase 26-36 (In case of contact with eyes, rinse immediately with plenty of water

and seek medical advice. Wear suitable protective clothing).

#### 15. Other Information

• If the material gets dried, while re-wetting, resin gets swelled.

#### Disclaimer

This information relates specifically to the product designated and may not be valid for the product when used in combination with any other materials or products or in a particular process. The information is, to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made to its accuracy, reliability or completeness. It is the user's responsibility to review this information, satisfy itself to its suitability and completeness and pass on the information to its employees or customers in accordance with applicable federal, sate or local hazard communications requirement. We do not accept responsibility for any loss or damage which may occur from the use of this information.