

## 1. Identification of the product and supplier

**Product name:** BituColor  
**Chemical name:** Not available  
**Product type and intended use:** Pigmentable binder for asphalt pavements  
**Supplier:** Ooms PMB bv.  
P.O. Box 1  
1633 ZG Avenhorn  
The Netherlands  
**Telephone nr.** 0229-547700  
**Internet- and e-mail address:** www.oomspmb.com; info@oomspmb.com

## 2. Hazards identification

**Classification** The product is classified as Non Hazardous according to guideline 1999/45/EG

**Physical / chemical hazard** The product is handled at elevated temperatures. When in contact with water severe steam reaction and foaming may occur. When significantly overheated the product may catch fire and cause explosion.

**Health hazard** The product can cause thermal burns when hot.  
During normal use, at elevated temperature, the product emits fumes. The fumes may cause irritation to the mouth and throat.

**Environmental hazard** Under normal conditions no relevant environmental hazard exist.

## 3. Information on composition and ingredients

**Description:** A blend of components derived from crude petroleum oil and polymers. The product contains no dangerous substances according to EC Directive 67/548/EEC and further modifications and adaptations pointed out in this publication.

| Chemical Name*             | CAS-nr.    | EG nr     | %    | Classification |
|----------------------------|------------|-----------|------|----------------|
| Deasphalted vacuum residue | 91995-70-9 | 295-332-8 | < 69 | Non classified |
| Synthetic resins           | 68131-77-1 |           | > 30 | Non classified |
| Synthetic polymers         | 9003-55-8  |           | > 1  | Non classified |

This mixture does not contain any REACH registered substances that are assessed to be (very) persistent, bioaccumulative and toxic.

## 4. First Aid Measures

**Inhalation:** In case the inhalation of the fumes lead to irritation to the nose and throat or causes dizziness, bring the victim into fresh air. In case the irritation persists, contact a doctor.

**Eye contact:**  
- After contact with the HOT product immediately flush with cold water with a duration of at least 5 minutes. Try to keep the eyelids open. Irrigate with water only and take the casualty immediately to a hospital.  
- After contact with the COLD product flush with running water. If irritation persists contact a doctor.

**Skin Contact:** When in contact with the HOT product immediately flush with cold

water with a duration of at least 5 minutes. DO NOT try to remove the substance from the skin. Contact emergency services / a doctor when in doubt.

**Ingestion:**

- When HOT product, which is not likely, immediately contact emergency services.
- When COLD product contact a doctor in case of irritation or other symptoms.

## 5. Fire fighting measures

**General**

When on fire the material may emit combustion products including gasses, fume and airborne solids. Tanks may boil over in particular when in contact with water.

**Fire fighting equipment**

Foam, powder, CO<sub>2</sub>, AFFF extinguishers

**NEVER USE:**

Water Jets

**PPE for fire fighters**

Use self contained breath protection when approaching fires in confined spaces.

## 6. Measures when the product is accidentally released.

**Personal protective measures:**

When the hot product is used in a confined space use self contained breath protection.

**Environmental precautions:**

After leakage prevent from spreading by means of damming the flood of material and let it cool down. Prevent entering into drains or sewage.

**Method of cleaning:**

Material can be removed by mechanical means when cooled down.

## 7. Handling and storage

The product shall not be overheated during handling and storage because of quality, health and environmental constraints. The temperature should be kept at least 30°C lower than the product flash point or below a maximum of 200°C, whichever is less. Avoid contact with the hot product during handling and storage.

**Handling:**

Use clean dry and heat resistant hoses for transfer of the material when liquid. Use compressed air to empty the pipe system. Avoid the use of steam or solvents.

**Storage:**

Use tanks or containers with steel linings only. Keep the temperature as low as recommended and minimize the exposure to oxygen. Be careful when opening hatches on top of storage tanks since after prolonged storage the vapour spaces may contain toxic gases. Both to avoid thermal degradation of the product. Ground and bond all transfer and storage equipment.

## 8. Exposure control and the use of personal protective equipment

### Occupational exposure limits (for information only)

| Material      | Source Ref | Type | mg/m3 | Notation                                       |
|---------------|------------|------|-------|--|
| Asphalt fumes | EH40 WEL*  | TWA  | 5     | As fumes                                       |
|               | EH40 WEL*  | STEL | 10    | As fumes                                       |
|               | ACGIH**    | TWA  | 0.5   | Inhalable fraction, as benzene soluble aerosol |

\* UK HSE Workplace exposure limits

\*\* American Conference of Governmental Industrial Hygienists

**Technical measures:**

Ensure good ventilation.

**Personal hygiene:**

Maintain a good personal hygiene, never eat or smoke in work area's

**Recommended monitoring procedure:**

None

**Personal protective equipment**

**Breath protection:**

During normal handling no breath protection is required. Whenever working with the product in a confined space for a long period use self contained breath protection.

**Skin and body:**

Wear well fitted overalls



**Hands:**

Wear protective gloves that can withstand hot products.



**Eyes:**

Use face protection whenever conducting tasks at which the binder can splatter.



## 9. Physical and chemical properties

|   |   |
|---|---|
| <b>Physical appearance at handling temperature:</b> | Fluid   |
| <b>Physical appearance at ambient temperature:</b>  | Viscous semi solid                                    |
| <b>Color:</b>                                       | Brownish  |
| <b>Odour:</b>                                       | Characteristic  |
| <b>Flash point:</b>                                 | >250°C  |
| <b>Density:</b>                                     | Approx 1,020 kg/m <sup>3</sup> at ambient temperature |
| <b>Vapour pressure:</b>                             | Negligible at 20°C                                    |
| <b>Vapour density</b>                               | Heavier than Air                                      |
| <b>Solubility:</b>                                  | Insoluble in water, well soluble in organic solvents. |
| <b>Softening point:</b>                             | 40-52°C   |
| <b>Electrical conductivity:</b>                     | Isolator  |
| <b>Hygroscopes:</b>                                 | Non   |
| <b>Ignition temperature:</b>                        | >350°C  |

## 10. Stability and reactivity

|  |   |
|--|---|
| <b>Chemical stability:</b>                 | Stable  |
| <b>Conditions to avoid:</b>                | Overheating;<br>Contact with water when hot;<br>Contamination of tank isolation (may reduce the ignition temperature as low as 150°C. |
| <b>Incompatible materials:</b>             | Strong oxidizing agents   |
| <b>Hazardous decomposition substances:</b> | Fumes/vapours like carbon, CO, CO <sub>2</sub> and C <sub>x</sub> H <sub>y</sub> .  |

## 11. Toxicological information

|                                    |   |
|------------------------------------|---|
| <b>Immediate toxicity:</b>         | Experiments have shown that any health risks are associated with aromatic and polycyclic constituents in the product. The levels at which these are present in the binder are extremely low. The handling procedures and personal protective measures described should be followed to minimise employee exposure. |
| <b>Inhalation:</b>                 | May lead to irritation  |
| <b>Sensibility and irritation:</b> | Probably low  |
| <b>Chronicle toxicity:</b>         | Not likely  |
| <b>Particular hazards:</b>         | Not known   |

## 12. Ecological information

|                                     |   |
|-------------------------------------|---|
| <b>Environmental toxicity:</b>      | Probably Low  |
| <b>Mobility:</b>                    | Low, products solidifies at ambient temperatures          |
| <b>Persistence/degradability:</b>   | Persistent, ages superficially but will hardly break down |
| <b>Bio accumulation:</b>            | Unlikely  |
| <b>Other environmental effects:</b> | Physical contamination.                                   |

### 13. Instructions for disposal

**Product waste:** Binder is fully recyclable  
**Contaminated package:** Dispose to authorized disposal station  
**Recycling of product:** Binder is fully recyclable  
**Hazardous waste:** Non hazardous




### 14. Transport Information

#### International transport regulations

*COLD PRODUCT: Transported at ambient temperature*

Identified as Non Hazardous (ADR, RID, UN,ICAO/IATA)

*HOT PRODUCT: Transported at >100°C but under flash point temperature.*

| Legal compulsory information | UN-number |                     | Class | PG* | Label   | Extra informative                           |
|------------------------------|-----------|---------------------|-------|-----|---|---|
| ADR/RIP Class                | 3257      | Only as HOT Product | 9     | III |    |   |
| IMDG/ADNR Class              | 3257      | Only as HOT Product | 9     | III |   | Warning label 9                             |
| IATA Class                   | 3257      | Only as HOT Product | 9     | III |  | Forbidden to airfreight when molten/liquid. |

\* : Package group

### 15. Regulatory information

**Safety phrases:** S 23, S 25, S 26, S 37/39 when HOT Product  
**Risk phrases** R35 when HOT Product

### 16. Other information

#### References:

#### Disclaimer

The guidelines and advise given in this MSDS are based on the current knowledge of the hazards and risks related to the handling and use of this product. When this product is mixed with other substances the user should beforehand aware herself/himself of the additional hazards and risks that may evolve.

#### History

**Date of Release/Revision:** 20-06-2014  
**Date of former release:** Complete new release  
**Version** 1.5