

## MATERIAL SAFETY DATA SHEET

### 1. CHEMICAL PRODUCTS/ IDENTIFICATION OF SUBSTANCE

**PRODUCT NAME:** Bitumen-Polyurethane Modified Waterproofing Membrane  
**PRODUCT CODE:** OPTIMASTIC PU BIT301  
**PRODUCT TYPE:** Waterproofing Membrane  
**RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE:**  
Use as waterproofing of roof decks with unexposed roofs, balconies, terraces, toilet & Bath, basement and tunnels

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### Section 2- Hazards Identification

#### Hazard description:

#### Information concerning particular hazards for human and environment:

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

R 43 May cause sensitization by skin contact.

#### Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

#### GHS label elements



Warning

3.4/1 - May cause an allergic skin reaction.

Warning

3.2/3 - Causes mild skin irritation.

3.3/2B - Causes eye irritation.

#### Prevention:

Avoid breathing dust/fume/gas/mist/vapors/spray.

Wash thoroughly after handling.

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection.



**Response:**

IF ON SKIN: Wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific treatment (see on this label).

If skin irritation occurs: Get medical advice/attention.

If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Wash contaminated clothing before reuse.

**Disposal:**

Dispose of contents/container in accordance with local/regional/national/international regulations

**Section 3 – Composition / Information On Ingredients**

Chemical characterization

Description: Mixture of substances listed below with non hazardous additions.

· Dangerous components:		
9004-62-0	hydroxyethylcellulose	≤0.25%
124-68-5	2-amino-2-methyl-1-propanol	≤1.00%
3586-55-8	(Ethylenedioxy) dimethanol	≤0.01%
55965-84-9	5-chloro-2-methyl-3(2h)-isothiazolone mixture with 2-Methyl-3(2h)-isothiazolone	≤0.001%
330-54-1	Diuron	≤0.05%
10605-21-7	Carbendazim (ISO)	≤0.03%
26530-20-1	2-Octyl-2H-isothiazol-3-one	≤0.01%
111-76-2	2-Butoxyethanol	≤0.65%
13463-67-7	Titanium dioxide	≤10-25%
471-34-1	Calcium carbonate	≤10-25%

**Section 4 – First Aid Measures**

- After inhalation:** Supply fresh air and to be sure call for a doctor.  
In case of unconsciousness place patient stably in side position for transportation.
- After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- After eye contact:** Rinse opened eye for several minutes under running water.
- After swallowing:** If symptoms persist consult doctor.

**Section 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:** No special measures required.



**Section 6- Accidental Release Measures**

**Person-related safety precautions:** Not required.

**Measures for environmental protection:**

- Do not allow product to reach sewage system or any water course.
- 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).
- Ensure adequate ventilation.

**Section 7 - Handling and Storage**

**Handling:**

**Information for safe handling:**

- Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of aerosols.

**Information about fire - and explosion protection:**

- No special measures required.

**Storage:**

**Requirements to be met by storerooms and receptacles:** No special requirements.

**Information about storage in one common storage facility:** Not required.

**Further information about storage conditions:** None

**Section 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:**

471-34-1 calcium carbonate	
PEL (USA)	15* 5** mg/m <sup>3</sup> *total dust **respirable fraction
REL (USA)	10* 5** mg/m <sup>3</sup> *total dust **respirable fraction
TLV (USA)	TLV withdrawn

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

**Personal protective equipment:**

**General protective and hygienic measures:**

- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of work.

**Respiratory protection:**



In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

**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. 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:** Goggles recommended during refilling.

**Section 9- Physical And Chemical Properties**

<b>General Information</b>	
<b>Form:</b> paste <b>Color:</b> Black <b>Odor:</b> Characteristic	<b>Solubility in / Miscibility with Water:</b> Fully miscible.
<b>Change in condition</b> <b>Melting point/Melting range:</b> Undetermined. <b>Boiling point/Boiling range:</b> >100°C	<b>pH-value at 29°C:</b> 8.0 - 9.5 (Direct Reading)
<b>Flash point:</b> Not applicable.	<b>Viscosity:</b> 110-120 KU
<b>Self-igniting:</b> Product is not self-igniting.	<b>Solids content:</b> 50-55 %
<b>Danger of explosion:</b> Product does not present an explosion hazard.	<b>Density at 29°C:</b> 1.20-1.25 K/L
<b>VOC</b>	92.4 g/L (USEPA METHOD 24)

**Section 10 – Stability And Reactivity**

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

**Dangerous reactions:** No dangerous reactions known.

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

**Section 11 – Toxicological Information**

**Acute toxicity:**

**Primary irritant effect:**

**on the skin:** Cause mild irritation

**on the eye:** Causes eye irritation

**Sensitization:** Sensitization possible through skin contact.



**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:

Irritant

**Sensitization:** May cause sensitization by skin contact.

**Section 12 – Ecological Information**

**General notes:**

**Water hazard class 1 (German Regulation) (Self-assessment):** slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**Section 13 – Disposal Information**

**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.

**Section 14- Transport Information**

**Land transport ADR/RID (cross-border)**

**ADR/RID class:** -

**Maritime transport IMDG:**

**IMDG Class:** -

**Marine pollutant:** No

**Air transport ICAO-TI and IATA-DGR:**

**ICAO/IATA Class:** -

**UN "Model Regulation":** -

**Section 15 – Regulatory Information**

**Philippines Inventory of Chemicals and Chemical Substances**

13463-67-7	titanium dioxide
10605-21-7	carbendazim (ISO)
9004-62-0	Hydroxyethyl starch
330-54-1	diuron(ISO)
26530-20-1	2-octyl-2H-isothiazol-3-one
124-68-5	2-amino-2-methylpropanol

**Labeling according to EU guidelines:**

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

**Risk phrases:**



43 May cause sensitization by skin contact.

**Safety phrases:**

2 Keep out of the reach of children.

9 Keep container in a well-ventilated place.

24 Avoid contact with skin.

29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

37 Wear suitable gloves.

46 If swallowed, seek medical advice immediately and show this container or label.

**Section 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**

21 Harmful in contact with skin.

22 Harmful if swallowed.

23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

34 Causes burns.

36/37/38 Irritating to eyes, respiratory system and skin.

40 Limited evidence of a carcinogenic effect.

41 Risk of serious damage to eyes.

48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.

50 Very toxic to aquatic organisms.

50/53 Very toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment.

**Department issuing SDS:** Research and Development

**Contact:** Marketing Department

**Abbreviations and acronyms:**

**ADR:** Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

**RID:** Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

**IMDG:** International Maritime Code for Dangerous Goods

**IATA:** International Air Transport Association

**IATA-DGR:** Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

**ICAO:** International Civil Aviation Organization

**ICAO-TI:** Technical Instructions by the "International Civil Aviation Organization" (ICAO)

**GHS:** Globally Harmonized System of Classification and Labeling of Chemicals

**PICCS:** Philippine Inventory of Chemicals And Chemical Substances