

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 22.06.2011



Revision: 21.06.2011

1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Trade name:** BITULAC
- **Relevant identified uses of the substance or mixture and uses advised against**
No relevant identified uses-mixture of substances.
- **Application of the substance / the preparation** Bituminous waterproofing varnish
- **Details of the supplier of the safety data sheet**
BM BITOUMINOUS MIXTURES A.E.
PRODUCTION OF BITOUMINOUS MIXTURES
15th klm. Old National Road. Thessaloniki – Veria
AG.ATHANASIOS THESSALONIKI
Adress: P.O.BOX: 1715, 570 08 IONIA THESSALONIKI
tel: +302310 710017
FAX: 2310 710016
e-mail: info@bitumix.gr
- **Further information obtainable from:** BM BITOUMINOUS MIXTURES A.E.
- **Emergency telephone number:** National Poisoning Centre

2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
 Xn; Harmful
 R63-65: Possible risk of harm to the unborn child. Harmful: may cause lung damage if swallowed.
-  N; Dangerous for the environment
 R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R10-67: Flammable. Vapours may cause drowsiness and dizziness.
- **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.
- **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- **Label elements**
- **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:**


 Xn Harmful
 N Dangerous for the environment
- **Hazard-determining components of labelling:**
naphtha (petroleum), hydrodesulfurized heavy toluene
- **Risk phrases:**
 10 Flammable.
 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 63 Possible risk of harm to the unborn child.
 65 Harmful: may cause lung damage if swallowed.
 67 Vapours may cause drowsiness and dizziness.

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Safety phrases:

- 2 Keep out of the reach of children.
- 29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
- 36/37 Wear suitable protective clothing and gloves.
- 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- 62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Other hazards**Results of PBT and vPvB assessment**


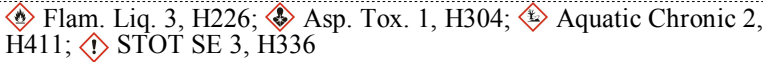
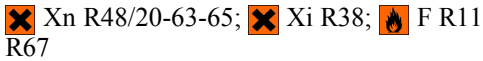

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

Chemical characterization: Mixtures

· **Description:** Mixture: consisting of the following components.

Dangerous components:

CAS: 64742-82-1	naphtha (petroleum), hydrodesulfurized heavy  R10-66-67 	25-50%
CAS: 108-88-3 EINECS: 203-625-9	toluene  R67 Repr. Cat. 3 	2.5-10%

4 First aid measures

Description of first aid measures**General information:**

Take affected persons out into the fresh air.
 Seek immediate medical advice.

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:** Generally the product does not irritate the skin.

· **After eye contact:** Rinse opened eye for several minutes under running water.

After swallowing:

Drink plenty of water and provide fresh air. Call for a doctor immediately.
 Seek immediate medical advice.

Information for doctor:

· **Most important symptoms and effects, both acute and delayed** No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Firefighting measures

· **Suitable extinguishing agents:** CO₂, extinguishing powder, sand, foam

· **For safety reasons unsuitable extinguishing agents:**

Water with full jet

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- Water spray
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:**
Fireproof suit with helmet (EN 469,533,1486) and self breathing apparatus(EN 137)
- **Additional information**
Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**
Do not allow to enter sewers/ surface or ground water.
Do not allow to penetrate the ground/soil.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Do not flush with water or aqueous cleansing agents
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection:**



Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool location.
Prevent any seepage into the ground.
Provide ventilation for receptacles.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**

Ingredients with limit values that require monitoring at the workplace:	
108-88-3 toluene	
WEL	Short-term value: 384 mg/m ³ , 100 ppm
	Long-term value: 191 mg/m ³ , 50 ppm
Sk	

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· **Additional Occupational Exposure Limit Values for possible hazards during processing:**

cas 64742-82-1 naphtha hydrodesulfurised heavy TWA 500 ppm

cas 64742-93-4 asphalt oxidized TWA 5mg/m3

· **Additional information:** The lists valid during the making were used as basis.· **Exposure controls**· **Personal protective equipment:**· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

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:**

Wear suitable gloves (EN 374, 388, 407, 420)

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

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 determined penetration times according to EN 374 part III are not performed under practical conditions.

Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

· **Eye protection:**

Safety glasses

· **Body protection:**

Wear suitable protective clothing and chemicals proof boots (EN 340, 365, 466, 467)



Use protective suit.

In case of release wear PVC apron(EN 345)

9 Physical and chemical properties

· **Information on basic physical and chemical properties**· **General Information**· **Appearance:**

Form: Liquid

Colour: Black

· **Odour:** like organic solvents· **Odour threshold:** Not determined.· **pH-value:** Not determined.· **Melting point/Melting range:** Undetermined.· **Boiling point/Boiling range:** 30°C· **Flash point:**

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· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	>300°C
· Decomposition temperature:	Not determined.
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapour pressure:	Not determined.
· Density at 25°C:	0.96 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Insoluble.
· Segregation coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** Stable at environment temperature.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· LD/LC50 values relevant for classification:		
64742-82-1 naphtha (petroleum), hydrodesulfurized heavy		
Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)
Inhalative	LC50/4 h	>5.5/ 4h mg/l (rat)
108-88-3 toluene		
Oral	LD50	5000 mg/kg (rat)
Dermal	LD50	12124 mg/kg (rabbit)
Inhalative	LC50/4 h	5320 mg/l (mouse)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.

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- **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:

12 Ecological information

- **Toxicity**
- **Acquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:** The product contains materials that are harmful to the environment.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**



Smaller quantities can be disposed of with household waste.



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

Contact manufacturer for recycling information.

- **Uncleaned packaging:**
- **Recommendation:**
Disposal must be made according to official regulations.
Packaging may be reused or recycled after cleaning.

14 Transport information

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



- **ADR/RID class:** 3 Flammable liquids.
- **Danger code (Kemler):** 30
- **UN-Number:** 1999
- **Packaging group:** III
- **Hazard label:** 3
- **Special marking:** Symbol (fish and tree)
- **UN proper shipping name:** 1999 TARS, LIQUID, ENVIRONMENTALLY HAZARDOUS

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· **Tunnel restriction code** D/E· **Maritime transport IMDG:**

· **IMDG Class:** 3
 · **UN Number:** 1999
 · **Label** 3
 · **Packaging group:** III
 · **EMS Number:** F-E, S-E
 · **Marine pollutant:** Yes
 Symbol (fish and tree)
 · **Proper shipping name:** TARS, LIQUID

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

· **ICAO/IATA Class:** 3
 · **UN Number:** 1999
 · **Label** 3
 · **Packaging group:** III
 · **Proper shipping name:** TARS, LIQUID

· **Environmental hazards:**

Product contains environmentally hazardous substances: naphtha (petroleum), hydrodesulfurized heavy

· **Special precautions for user** Warning: Flammable liquids.· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**· **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:**

Xn Harmful

N Dangerous for the environment

· **Hazard-determining components of labelling:**naphtha (petroleum), hydrodesulfurized heavy
toluene· **Risk phrases:**

10 Flammable.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

63 Possible risk of harm to the unborn child.

65 Harmful: may cause lung damage if swallowed.

67 Vapours may cause drowsiness and dizziness.

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- 36/37 Wear suitable protective clothing and gloves.
- 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- 62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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 phrases

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H336 May cause drowsiness or dizziness.
- H361d Suspected of damaging the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.
- R10 Flammable.
- R11 Highly flammable.
- R38 Irritating to skin.
- R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R63 Possible risk of harm to the unborn child.
- R65 Harmful: may cause lung damage if swallowed.
- R66 Repeated exposure may cause skin dryness or cracking.
- R67 Vapours may cause drowsiness and dizziness.

Department issuing MSDS:

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· **Contact:** BM BITOUMINOUS MIXTURES A.E.

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