

SAFETY DATA SHEET

Complying with Regulation 1907/2006/EC (REACH Regulation, 453/2010/EC and Regulation No 1272/2008/EC (CLP)

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

1.1 Product identifier

Trade name: BITUFLEX BP-1 COMPONENT

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Industrial/Professional use spec For professional use only
Industrial

Use of the substance/mixture One component elastomeric, polyurethane based material, extended with pure chemically polymerized black bitumen, for waterproofing any surface

Application of the substance/ the mixture : Coating material

1.3 Details of the supplier of the safety data sheet

BITULINE INDUSTRIES S.A

16thkm old Highway Thiva-Chalkida,

P.O BOX 19,32200 Thiva

Vathi Avlidas, Greece

Tel +30 2262-071792-4

e-mail: bitu_ind@otenet.gr

1.4 Emergency telephone number Poisoning Centre in Athens ,Greece

Phone : +302107793777

SECTION 2 : Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation EC No 1272/2008 CLP



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS08 health hazard

Specific target organ toxicity-Repeated exposure 2 H373.May cause damage to organs through prolonged or repeated exposure



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Information concerning particular hazards for human and environment

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

Classification system

The classification of the product is according CLP Regulation 1272/2008/EC and European Directive 99/45/EC.

2.2 Label elements

Labelling according to Regulation EC No 1272/2008 CLP

The product is classified and labelled according to the CLP regulation

Hazard pictograms



GHS02



GHS08



GHS07

Signal word Warning

Hazard-determining components of labelling

xylene

Hazard statements

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H373. May cause damage to organs through prolonged or repeated exposure

· Precautionary statements

P102 Keep out of reach of children.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233 Keep container tightly closed

P260 Do not breathe vapours

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P271 Use only outdoors or in a well ventilated area

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

EUH 204 Contains isocyanates .May produce an allergic reaction.

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

PBT : Not applicable

VPvB : Not applicable

SECTION 3: Composition/information on ingredients**3.1 Chemical description : Mixtures**

· **Description** : Mixture of substances listed below with nonhazardous additions.

Dangerous components :

xylylene	(CAS No) 1330-20-7 (EC no) 215-535-7 (EC index no) 601-022-00-9	10 – 15%	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304
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SECTION 4 : First aid measures**4.1 Description of 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.

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

Wash thoroughly with soap and water. If skin irritation occurs get medical advice/attention

After eye contact

Rinse opened eye with running water for at least 15 minutes. Seek medical aid

After ingestion

Do not induce vomiting . Obtain emergency medical attention

4.2 Most important symptoms and effects ,both acute and delayed

Symptoms/injuries : Causes damage to organs.

Symptoms/injuries after skin contact : Causes skin irritation.

Symptoms/injuries after eye contact : Causes serious eye irritation.

4.3 Indication of any immediate attention and special treatment needed.

No further relevant information available

SECTION 5 : Firefighting measures

5.1 Extinguish media

Suitable extinguish agents

Carbon dioxide CO₂, foam or extinguish powder. Fight larger fires with water spray

Unsuitable extinguish agent Water with full jet

5.2 Special hazards arising from the substance or mixture

No further relevant information available

5.3 Advice for firefighters

Necessary to use full protective clothing and individual respiratory equipment.

SECTION 6 : Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment .Keep unprotected persons away.

6.2 Environmental precautions

Do not allow to enter sewers /surface or ground water

6.3 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

Ensure adequate ventilation

6.4 Reference to other sections

See sections 8 and 13.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Technical recommendations for the prevention of fires and explosions.



Keep ignition sources away. Do not smoke

Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities

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:

Keep only in the original container in a cool, well ventilated place away from heat sources.

Keep container tightly sealed

7.3 Specific end use(s) No further relevant information available

SECTION 8. Exposure controls/personal protection

• Additional information about design of technical facilities: No further data

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace

1330-20-7 xylene (12.5-<20%)

WEL Short-term value: 441 mg/m³, 100 ppm

Long-term value: 220 mg/m³, 50 ppm

Sk; BMGV

• Ingredients with biological limit values

1330-20-7 xylene (12.5-<20%)

BMGV 650 mmol/mol creatinine

Medium: urine

Sampling time: post shift

Parameter: methyl hippuric acid

8.2 Exposure controls

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.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

Respiratory protection



In case of brief exposure 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 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:



Tightly sealed goggles.

Body protection



Protecting work clothing

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General information

Appearance	Liquid
Colour	Black
Odour	characteristic
Odour threshold	not determined
pH value	not determined
Melting point/Melting range	not determined
Boiling point/boiling range	not determined
Flash point	42° C
Flammability (solid,gaseous)	flammable liquid and vapour
Decomposition temperature	not determined
Self-ignition temperature	the product is not self-igniting.
Danger of explosion	The product is not explosive .However ,formation of explosive air/vapour mixtures are possible
Explosive limits	
lower	not determined
upper	not determined
Vapour pressure	not determined
Density at 20 °C	1.35 g/cm ³
Relative density	not determined
Vapour density	not determined
Evaporation rate	not determined

Solubility in/miscibility with water	not miscible or difficult to mix
Segregation coefficient (n-octanol/water)	not determined
Viscosity	
Dynamic at 25 °C	10000 cP
Kinematic	not determined
9.2 Other information	No further relevant information available

SECTION 10 :Stability and reactivity

10.1 Reactivity

10.2 Chemical stability

Thermal decomposition /conditions to be avoided

Stable at environment temperature

10.3 Possibility of hazardous reactions . No dangerous reactions known

10.4 Conditions to avoid Direct sunlight. Extremely high or low temperatures. Open flame Overheating. Heat. Sparks

10.5 Incompatible materials Strong acids and bases. Oxidizer , water, amines and alcohols

10.6 Hazardous decomposition products Fume ,carbon monoxide ,carbon dioxide. May release flammable gases

SECTION 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

• LD/LC50 values relevant for classification:

1330-20-7 xylene

Oral LD50 4300 mg/kg (rat)

Dermal LD50 2000 mg/kg (rabbit)

• Primary irritant effect:

• on the skin: irritating.

• on the eye: Irritating

Sensitization

Not classified

• 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

Irritant

SECTION 12: Ecological information

12.1 Toxicity

Acquatic toxicity No further relevant information available.

12.2 Persistence and degradability No further relevant information available

12.3 Bioaccumulative potential No further relevant information available

12.4 Mobility in soil No further relevant information available

• General notes:

Water hazard

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities

12.5 Results of PBT and vPvB assessment

Non applicable

12.6 Other adverse effects Avoid release to the environment

SECTION 13.Disposal considerations

13.1 Waste treatment methods

Recommendations

Disposal must be according to National Legislation.

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

Uncleaned packaging

Recommendation

Disposal must be according to official regulations

SECTION 14 : Transport information

14.1. UN number

UN-No. (ADR) : 1139
UN-No. (IMDG) : 1139
UN-No. (IATA) : 1139

14.2. UN proper shipping name

Proper Shipping Name (ADR) : COATING SOLUTION
Proper Shipping Name (IMDG) : COATING SOLUTION
Proper Shipping Name (IATA) : Coating solution
Proper Shipping Name (ADN) : Not regulated
Proper Shipping Name (RID) : Not regulated
Transport document description (ADR) : UN 1139 COATING SOLUTION
NOT SUBJECT TO THE PROVISIONS OF ADR
- The product is packed in receptacles of less than 450 litres capacity.
- Exempted according to 2.2.3.1.5 (Viscous substance exemption)), 3, III, (D/E)
Transport document description (IMDG) : UN 1139 COATING SOLUTION
NOT SUBJECT TO THE PROVISIONS OF IMDG CODE FOR THE
MARKING,
LABELLING AND TESTING OF PACKAGES IN CHAPTERS 4.1, 5.2, AND
6.1.
- The product is packed in receptacles not exceeding 30 L capacity
- The following statement shall be included in the transport document:
“Transport in accordance with 2.3.2.5 of the IMDG Code.”
3, III
Transport document description (IATA) : UN 1139 Coating solution, 3, III

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 3
Danger labels (ADR) : 3



IMDG

Transport hazard class(es) (IMDG) : 3
Danger labels (IMDG) : 3



IATA

Transport hazard class(es) (IATA) : 3
Hazard labels (IATA) : 3



14.4. Packing group

Packing group (ADR) : III
Packing group (IMDG) : III
Packing group (IATA) : III

14.5. Environmental hazards

Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

14.6. Special precautions for user

- Overland transport

Classification code (ADR)	: F1
Special provisions (ADR)	: 640E
Limited quantities (ADR)	: 51
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	: MP19
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Special provisions for carriage - Operation (ADR)	: S2
Hazard identification number (Kemler No.)	: 30
Tunnel restriction code (ADR)	: D/E
EAC code	: •3YE

- Transport by sea

Special provisions (IMDG)	: 955
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-E
Stowage category (IMDG)	: A
Properties and observations (IMDG)	: Miscibility with water depends upon the composition.

- Air transport

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y344
PCA limited quantity max net quantity (IATA)	: 10L
PCA packing instructions (IATA)	: 355
PCA max net quantity (IATA)	: 60L
CAO packing instructions (IATA)	: 366
CAO max net quantity (IATA)	: 220L
Special provisions (IATA)	: A3
ERG code (IATA)	: 3L

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15. Regulatory information

15.1 Safety ,health and environmental regulation/legislation specific for the substance or mixture

The mixture classification is according to CLP Regulation 1272/2008/EC

• **Labelling according to Regulation (EC) No 1272/2008** Label elements in Section 2.2

• **National regulations:**

• **Other regulations, limitations and prohibitive regulations**

• **Substances of very high concern (SVHC) according to REACH, Article 57**

It doesn't contain substances of very high concern (SVHC).

15.2 Chemical safety assessment : A Chemical Safety Assessment has not been carried out

SECTION 16. Other information

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

Relevant phrases

H226 Flammable liquid and vapour

H304 May be fatal if swallowed and enter airways

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure

EUH204 Contains isocyanates. May produce an allergic reaction

Date of issue : 10/01/2017