

Safety Data Sheet BITUMAC

According to regulation 1907/2006/EC (REACH), Annex II as amended by 878/2020/EU

Revision Date: 10/11/2022, Edition:06



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

1.1 Product identifier

Product name: BITUMAC

Product description: Cold-applied plastomeric bituminous mastic

REACH registration number: Mixture (registration is not required according to REACH regulation, 1907/2006/EC)

UFI code: HY7T-JKQT-000V-892A

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

1.2.1 Relevant identified uses: Sealing

Life Cycle Stages (LCS): PW - Widespread use by professional workers

Sector of Use (SU): SU22 - Professional uses

Product Category (PC): PC9b - Fillers, putties, plasters, modelling clay

Process Category (PROC): PROC8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities, PROC0 – Other. Spatula application.

Environmental Release Category (ERC): ERC8f - Wide dispersive outdoor use resulting in inclusion into or onto a matrix

Article Category (AC): AC4a - Stone, plaster, cement, glass and ceramic articles: Large surface area articles, AC7a - Metal articles: Large surface area articles

Technical Function (TF): Other

Application of the substance / the mixture: Surface protection. Sealing horizontal and vertical cracks or expansion joints on roofs, walls, buildings, special points on concrete surfaces such as gutters, corners, metallic frames, ventilation frames.

1.2.2 Uses advised against: No additional information available.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier - Further information obtainable from:

BITUMIX S.A.

Bituminous Mixtures Production

15th km Old National Road Thessaloniki-Veria

Agios Athanasios – Thessaloniki - Greece

PO.Box: 1030, GR 57003

TEL: +30 2310 710017

FAX: +30 2310 710016

e-mail: info@bitumix.gr

1.4 Emergency telephone number

Regional Medicines and Poisons Information Centre NI

Pharmacy Department, Royal Hospital Suite

Grosvenor Road Belfast

Telephone: +44 28 90 63 2032

Fax: +44 28 90 24 80 30

Emergency telephone (24h): 844 892 0111

E-mail address: nirdic.nirdic@belfasttrust.hscni.net

European Emergency Number: 112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation 1272/2008/EC (CLP)

Repr. 2, H361d

Safety Data Sheet BITUMAC

According to regulation 1907/2006/EC (REACH), Annex II as amended by 878/2020/EU

Revision Date: 10/11/2022, Edition:06



STOT RE 1, H372
Aquat. Chron. 3, H412

For full text of abbreviations: see section 16

2.2 Label elements

Labelling according to Regulation 1272/2008/EC (CLP)

Hazard pictograms:



GHS08

Signal words: Danger

Hazard determining components of labeling:

Toluene

Hydrocarbons C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Hazard statements:

H361d: Suspected of damaging the unborn child.

H372: Cause damage to organs through prolonged or repeated exposure.

H412: Harmful to aquatic life with long lasting effects

Precautionary statements:

P261: Avoid breathing vapors.

P271: Use only outdoors or in a well-ventilated area.

P273: Avoid release to the environment.

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

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P308+P313: IF EXPOSED: Call a POISON CENTER or doctor/physician

P370+P378: IN CASE OF FIRE: Use CO₂, foam or dry powder to extinguish.

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

2.3 Other hazards

The product does not contain substance(s) at levels of 0,1% or higher considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) according to Regulation 1907/2006/EC, Annex XIII.

There is no information for substance(s) contained in the product at levels of 0,1% or higher which included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable. The product is mixture.

Safety Data Sheet BITUMAC

According to regulation 1907/2006/EC (REACH), Annex II as amended by 878/2020/EU

Revision Date: 10/11/2022, Edition:06



3.2 Mixtures

Contains the following hazardous substances or substances for which there are workplace exposure limits:

Ingredient name	Percent % w/w	REACH registration number	Index number	CAS number	EC number	Classification 1272/2008 (CLP)
Asphalt (substance with a workplace exposure limit)	55-65	01-2119480172-44-XXXX	-	8052-42-4	232-490-9	-
Paraffin waxes and Hydrocarbon waxes (substance with a workplace exposure limit)	1-5	01-2119488076-30-0007, 01-2119488076-30-xxxx	-	8002-74-2	232-315-6	-
Calcium carbonate (substance with a workplace exposure limit)	10-20	Exempted in accordance Annex V.7	-	1317-65-3	215-279-6	-
Toluene	1-5	01-2119471310-51-XXXX	601-021-00-3	108-88-3	203-625-9	Flam. Liq. 2 H225, Repr. 2 H361d, Asp. Tox. 1 H304, STOT RE 2 H373, Skin Irrit. 2 H315, STOT SE 3 H336
White Spirit (Contains Benzene <0.1%)	8-13	01-2119458049-33-XXXX	649-330-00-2	64742-82-1	919-446-0	Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H336, STOT RE 1 H372 Aquatic Chronic 2 H411, EUH066

For full text of abbreviations: see section 16

SECTION 4: First aid measures

4.1 Description of first aid measures

General instructions: Immediately remove any clothing soiled by the product. Symptoms may even occur after several hours, therefore medical observation is necessary for at least 48 hours after the accident.

After inhalation: Remove person to fresh air. If signs/symptoms continue, get medical attention. Keep patient warm and at rest. If breathing is irregular or stopped, provide artificial respiration or oxygen by trained personnel. In case of unconsciousness place patient stably in side position for transportation.

After skin contact: Remove contaminated clothing. Wash skin with soap and water. Use recognized skin cleanser. Do not use solvents. Seek medical attention for any rash or irritation.

After eye contact: If substance has got into the eyes, immediately wash out with plenty of water for at least 15 minutes. If symptoms persist, obtain medical attention.

After ingestion: Rinse mouth. DO NOT induce vomiting. Get medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: CO₂, dry chemical powder, sand, foam, water spray

Unsuitable extinguishing media: Strong water stream

5.2 Special hazards arising from the substance or mixture

Flammable solid with burning rate <2,2 mm/s and burning time >10 min (Method N1, Part 33.2.1 of UN

Safety Data Sheet BITUMAC

According to regulation 1907/2006/EC (REACH), Annex II as amended by 878/2020/EU

Revision Date: 10/11/2022, Edition:06



recommendations). Harmful to aquatic life with long lasting effects. During heating or in case of fire poisonous gases may be produced.

5.3 Advice for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA). Evacuate area. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Additional information:

Contaminated water and residues from the fire are collected separately and disposed of in accordance with local regulation. They must not be emptied into the drain.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Immediately contact emergency personnel. No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel away. Do not walk through spilt material. Shut off and remove all ignition sources. No smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Put on appropriate personal protective equipment.

For emergency responders: Wear suitable protective equipment (See section 8). Contact emergency services where appropriate. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Dangerous to the environment if released in large quantities. Collect spillage.

6.3 Methods and material for containment and cleaning up

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Collect and reuse where possible. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. In case of contamination inform immediately the local authorities.

6.4 Reference to other sections

See Section 1 for emergency contact information. See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with eyes and skin. Do not breathe its vapors. Apply in places with very good ventilation. Don't eat, drink or smoke while handling the material. Use appropriate means of body protection (gloves, glasses, overalls, shoes). Keep away from heat and ignition sources. Apply all rules of personal hygiene after each use. Take precautionary measure against electrostatic discharges. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Empty containers retain product residue and can be hazardous. Avoid release to the environment.

7.2 Conditions for safe storage, including any incompatibilities

Store in approved tightly closed and properly labeled container. Store in a well-ventilated shady place away from

Safety Data Sheet BITUMAC

According to regulation 1907/2006/EC (REACH), Annex II as amended by 878/2020/EU

Revision Date: 10/11/2022, Edition:06



sources of heat, ignition and direct contact with sunlight. Keep containers properly sealed and the content away from non-compatible materials, see section 10. Ensure containers are protected from physical damage and sealed when not in use.

7.3 Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)

Ingredient name	TWA (Long-term exposure limit)	STEL (Short-term exposure limit)	Ceiling (Ceiling limit)	Remarks
Toluene (CAS: 108-88-3)	50 ppm ή 192 mg/m ³ , 8h	100 ppm ή 384 mg/m ³ , 15min	-	WEL: EH40/2020
Asphalt fumes (CAS: 8052-42-4)	5 mg/m ³ , 8h	10 mg/m ³ , 15min	-	WEL: EH40/2020
Paraffin waxes and Hydrocarbon waxes (CAS: 8002-74-2)	2 mg/m ³ , 8h	6 mg/m ³ , 15min	-	WEL: EH40/2020
Calcium carbonate (CAS: 1317-65-3)	10 mg/m ³ , 8h		-	WEL: EH40/2020

Derived No Effect Level (DNEL) according to Regulation (EC) 1907/2006 (Human health values)

Asphalt fumes (CAS: 8052-42-4) DNEL values		Oral exposure		Dermal exposure		Inhalative exposure	
		Short term (Acute)	Long term (Chronic)	Short term (Acute)	Long term (Chronic)	Short term (Acute)	Long term (Chronic)
Consumer	Local	-	-	-	-	-	0,6 mg/m ³ 24h
	Systemic	-	-	-	-	-	-
Worker	Local	-	-	-	-	-	2,9 mg/m ³ 8h
	Systemic	-	-	-	-	-	-

Toluene (CAS: 108-88-3) DNEL values		Oral exposure		Dermal exposure		Inhalative exposure	
		Short term (Acute)	Long term (Chronic)	Short term (Acute)	Long term (Chronic)	Short term (Acute)	Long term (Chronic)
Consumer	Local	-	-	-	-	-	-
	Systemic	-	8,1 mg/kg bw/day	-	226 mg/kg bw/day	-	56,5 mg/m ³
Worker	Local	-	-	-	-	-	-
	Systemic	-	-	-	384 mg/kg bw/day	-	192 mg/m ³ 8h

White spirit (CAS: 64742-82-1) DNEL values		Oral exposure		Dermal exposure		Inhalative exposure	
		Short term (Acute)	Long term (Chronic)	Short term (Acute)	Long term (Chronic)	Short term (Acute)	Long term (Chronic)
Consumer	Local	-	-	-	-	-	-
	Systemic	-	26 mg/kg bw/day	-	26 mg/kg bw/day	570 mg/m ³	71 mg/m ³
Worker	Local	-	-	-	-	-	-
	Systemic	-	-	-	44 mg/kg bw/day	570 mg/m ³	330 mg/m ³

Predicted No Effect Concentration (PNEC) according to Regulation (EC) 1907/2006 (Environmental values)

Safety Data Sheet BITUMAC

According to regulation 1907/2006/EC (REACH), Annex II as amended by 878/2020/EU

Revision Date: 10/11/2022, Edition:06



Toluene (CAS: 108-88-3) PNEC values		
Compartment	Value	Notes
Fresh water	0,68 mg/l	No notes
Marine water	0,68 mg/l	No notes
Fresh water sediment	16,39 mg/kg	No notes
Marine water sediment	16,39 mg/kg	No notes
Sewage Treatment Plant	13,61 mg/l	No notes
Soil	2,89 mg/kg	No notes

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure good ventilation of the workstation. Emergency eye wash station and safety showers should be available in the immediate vicinity of any potential exposure. Take organizational measures to prevent /limit releases, dispersion and exposure. See also section 7.

8.2.2 Individual protection measures, such as personal protective equipment

General protective and hygienic measures: Avoid contact with skin and eyes. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection: In case of brief exposure or low pollution use respiratory filter device Type A-Class P1 (Organic gases/vapours and Particulate). In case of intensive or longer exposure, use self-contained respiratory protective device (EN 140, 141).

Protection of hands: Wear suitable chemical-resistant gloves (EN 374). The glove material has to be impermeable and resistant to the product. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation (nitrile rubber, chloroprene rubber, PVC). 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. For this reason the suitability of gloves should be checked before use.

Eye protection: Wear safety glasses with side-shields (EN 166).

Body protection: Wear professional long-sleeved overalls and safety footwear (EN 340, 365, 466, 467)

8.2.3 Environmental exposure controls

Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Properties	Values/Remarks
Physical state	High viscosity Paste
Colour	Black
Odour	Characteristic of organic solvents
Melting point	Not determined
Freezing point	Not determined
Boiling point or initial boiling point and boiling range	110-111°C (108-88-3 toluene) 135-220°C (64742-82-1 white spirit)
Flammability	Flammable solid but does not meet the classification criteria (burning rate <2,2 mm/s and burning time >10 min (Method N1, Part 33.2.1 of UN recommendations))
Lower and upper explosion limit	0,6 Vol % and 7,2 Vol % (64742-82-1 white spirit) 1,2 Vol % and 7 Vol % (108-88-3 toluene)

Safety Data Sheet BITUMAC

According to regulation 1907/2006/EC (REACH), Annex II as amended by 878/2020/EU

Revision Date: 10/11/2022, Edition:06



Flash point	Not applicable
Auto-ignition temperature	>200 °C (64742-82-1 white spirit)
Decomposition temperature	Not determined
pH	Not determined
Kinematic viscosity at 40 °C	>100.000 cSt
Dynamic viscosity at 25 °C	>100.000 cP
Solubility	Insoluble in water
Partition coefficient n-octanol/water (log value)	Not determined
Vapour pressure at 20 °C	Not determined
Density at 20 °C	1,05 – 1,20 gr/cm ³
Relative vapour density	Not determined
Particle characteristics	Not determined

9.2 Other information

Content of V.O.C: Subcategory: Not applicable.

Limit value V.O.C: Not applicable. Max value V.O.C: 190gr/lt

SECTION 10: Stability and reactivity

10.1 Reactivity

Non-reactive with other substances under normal conditions of storage and use.

10.2 Chemical stability

Stable under recommended conditions of storage and use. Not decomposed when it is stored and handled properly.

10.3 Possibility of hazardous reactions

Hazardous reactions and polymerisation will not occur under normal conditions of storage and use.

10.4 Conditions to avoid

Sources of ignition and heat. Electrostatic charges. Strong oxidizing substances, strong acids and bases.

10.5 Incompatible materials

Oxidising substances, strong acids and bases.

10.6 Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation 1272/2008/EC

Acute toxicity

Based on the available data, there is no classification

Ingredient name	Result	Species	Dose	Exposure
Toluene (CAS: 108-88-3)	LD50 Oral	Rat	636 mg/kg	
	LD50 Dermal	Rabbit	8390mg/kg	
	LC50 Inhalation	Rat	49 mg/l	4 h
White spirit (CAS: 64742-82-1)	LD50 Oral	Rat	>15000 mg/kg	
	LD50 Dermal	Rabbit	>3400 mg/kg	
	LC50 Inhalation	Rat	>13,1 mg/l	4 h

Skin corrosion/irritation

Based on the available data, there is no classification

Serious eye damage/irritation

Safety Data Sheet BITUMAC

According to regulation 1907/2006/EC (REACH), Annex II as amended by 878/2020/EU

Revision Date: 10/11/2022, Edition:06



Based on the available data, there is no classification

Respiratory or skin sensitization

Based on the available data, there is no classification

Germ cell mutagenicity

Based on the available data, there is no classification

Carcinogenicity

Based on the available data, there is no classification

Reproductive toxicity

Suspected of damaging the unborn child

Specific target organ toxicity (STOT) (single exposure)

Based on the available data, there is no classification

Specific target organ toxicity (STOT) (repeated exposure)

Causes damage to organs after prolonged or repeated exposure

Aspiration hazard

There is no classification because the mixture has a viscosity greater than 20,5 cSt at 40 °C

Information on likely routes of exposure

Eye contact: No further relevant information available.

Skin contact: No further relevant information available.

Inhalation: No further relevant information available.

Ingestion: No further relevant information available.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact No further relevant information available.

Skin contact: No further relevant information available.

Inhalation: No further relevant information available.

Ingestion: No further relevant information available.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure:

Potential immediate effects: No further relevant information available.

Potential delayed effects: No further relevant information available.

Long term exposure:

Potential immediate effects: No further relevant information available.

Potential delayed effects: No further relevant information available.

Potential chronic health effects: No further relevant information available.

11.2 Information on other hazards

Endocrine disrupting properties

No further relevant information available.

Other information

No further relevant information available.

SECTION 12: Ecological information

12.1 Toxicity

Harmful to aquatic life with long lasting effects

Ingredient name	Result	Toxicity	Exposure
Toluene (CAS: 108-88-3)	EC50 12.500 mg/l (Pseudokirchn subcapitata)	Acute (short-term)	72 h
	NOEC 1.000 mg/l (daphnia magna)	Chronic (long-term)	21 d

Safety Data Sheet BITUMAC

According to regulation 1907/2006/EC (REACH), Annex II as amended by 878/2020/EU

Revision Date: 10/11/2022, Edition:06



White spirit (CAS: 64742-82-1)	EC50 10-30mg/l (Oncorhynchus mykiss)	Acute (short-term)	96 h
	EC50 10-22mg/l (Daphnia magna)	Acute (short-term)	48 h
	EL50 4,6-10mg/l (Algae)	Acute (short-term)	72 h
	NOEC 0,13 mg/l (Oncorhynchous mykiss)	Chronic (long-term)	28 d
	NOEC 0,28 mg/l (daphnia magna)	Chronic (long-term)	21 d

12.2 Persistence and degradability

No further relevant information available.

12.3 Bioaccumulative potential

No further relevant information available.

12.4 Mobility in soil

The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces. Spillage unlikely to penetrate soil. The product is insoluble in water. It is not likely mobile in the environment due its low water solubility.

12.5 Results of PBT and vPvB assessment

The product contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0,1% or higher.

12.6 Endocrine disrupting properties

No further relevant information available.

12.7 Other adverse effects

No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product disposal

In the absence of relevant alteration to the material or present of contaminants, disposal of this product as surplus (unused) or off-spec material or waste resulting from the foreseeable uses, does not present a specific hazard, or require special handling measures other than those indicates in section 7. Reuse or recycle product wherever possible.

The waste of product must be considered hazardous waste. They should not be mixed with other hazardous and non-hazardous waste and should not be disposed of in the water, sewer or ground. The waste of product must be collected separately and shall be submitted an authorized organization for waste management.

Waste code according to the European Waste Catalog (EWC):

Wastes of the product: 08 04 09*- waste adhesives and sealants containing organic solvents or other dangerous substances

Absorption material disposal

Absorption materials for accidental release of the product must be considered hazardous waste. They must be collected separately and shall be submitted an authorized organization for waste management.

Waste code according to the European Waste Catalog (EWC):

Absorption wastes of the product: 15 02 02* - absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances

Packaging disposal

Empty containers may contain residue and can be dangerous. Uncleaned packaging can be reused or collected separately and submitted an authorized organization for waste management.

Waste disposal code according to European Waste Catalog (EWC):

Cleaned waste packaging: 15 01 02 - plastic packaging

Safety Data Sheet BITUMAC

According to regulation 1907/2006/EC (REACH), Annex II as amended by 878/2020/EU

Revision Date: 10/11/2022, Edition:06



Not-cleaned waste packaging: 15 01 10* - packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

The product must be transported by vehicles authorized to the carriage of dangerous goods according to the provisions set out in the current edition of the Code of International Carriage of Dangerous Goods (ADR/RID/IMDG/IATA) and in all the applicable national regulations. People loading and unloading dangerous goods must be trained on all the risks deriving from these substances and on all actions that must be taken in case of emergency situations

Classification according to ADR / RID, IMDG, IATA / ICAO transport regulations

14.1 UN number

ADR	IMDG	IATA	RID
Not applicable	Not applicable	Not applicable	Not applicable

14.2 UN proper shipping name

ADR	IMDG	IATA	RID
Not applicable	Not applicable	Not applicable	Not applicable

14.3 Transport hazard class(es)

ADR	IMDG	IATA	RID
Not applicable	Not applicable	Not applicable	Not applicable

14.4 Packing group

ADR	IMDG	IATA	RID
Not applicable	Not applicable	Not applicable	Not applicable

14.5 Environmental hazards

ADR	IMDG	IATA	RID
Yes	Yes Marine Pollutant: No	Yes	Yes

14.6 Special precautions for user

ADR	IMDG	IATA	RID
None known	None known	None known	None known

Additional information

ADR	IMDG	IATA	RID
None known	None known	None known	None known

14.7 Transport in bulk according to Annex II of Marpol 73/78 and IBC Code

Not applicable

Safety Data Sheet BITUMAC

According to regulation 1907/2006/EC (REACH), Annex II as amended by 878/2020/EU

Revision Date: 10/11/2022, Edition:06



SECTION 15: Regulatory information

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

15.1.1 Regulation 1907/2006/EC (REACH)

Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII): Product: points 3 and 40, Content of substance: point 48 Toluene

Substances subject to authorization (Annex XIV): None

Substances of Very High Concern (SVHC) according to Article 57 (candidate list): None

15.1.2 Directive 2012/18/EU (Seveso III) (Control of major-accident hazards involving dangerous substances):

Dangerous substance/hazard categories:

Named dangerous substances - ANNEX I: None of the ingredients are listed.

Seveso category: Not applicable

15.1.3 Regulation 649/2012/EC (Export and import of dangerous chemicals) :

Substances subject to export and import reporting: None

15.1.4 Regulation 1005/2009/EC:

Substances that deplete the ozone layer: None

15.1.5 Regulation 1021/2019/EC:

Substances that are persistent organic pollutants (POP): None

15.1.6 Directive 2004/42/EC (Reduction of Volatile Organic Compound (VOC) emissions):

VOC value: See section 9.2

15.1.7 Directive 98/24/EC:

Occupational Health and Safety Protection of Workers from Risks Due to Chemical Factors

Healthcare controls: Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out for the components of the product: Toluene (CAS: 108-88-3), White spirit (CAS: 64742-82-1), Asphalt (CAS: 8052-42-4), Paraffin waxes and Hydrocarbon waxes (CAS: 8002-74-2)

SECTION 16: Other information

16.1 Abbreviations and acronyms

CLP	Regulation for Classification, Labelling and Packaging
REACH	Regulation for Registration, Evaluation, Authorisation and Restriction of Chemicals
GHS	Globally Harmonized System of classification and labeling of chemicals
EINECS	European Inventory of Existing Commercial Chemical Substances
ADR	Agreement on dangerous goods by road
RID	Regulation concerning the international transport of dangerous goods by train
IMDG	International Maritime Code for dangerous goods
IATA	International Air Transport Association
IBC CODE	International Bulk Chemical code
MARPOL	International Convention for the Prevention of Pollution from Ships

Safety Data Sheet BITUMAC

According to regulation 1907/2006/EC (REACH), Annex II as amended by 878/2020/EU

Revision Date: 10/11/2022, Edition:06



EWC	European Waste Catalog
UN	United Nations
VOC	Volatile Organic Compounds
SVHC	Substance of Very High Concern
CAS NUMBER	Chemical Abstract Service Number
EC NUMBER	European Community number
INDEX NUMBER	Identifier in Annex VI of CLP
TWA	Time-weighted average exposure limit
STEL	Short-term exposure limit
CEILING	Concentration that should not be exceeded during any time of occupational exposure
PBT	Persistent bioaccumulative and toxic as REACH Regulation
vPvB	Very Persistent and very Bioaccumulative as for REACH Regulation.
DNEL	Derived No Effect Level
PNEC	Predicted no effect concentration
EC50	Effective concentration (required to induce a 50% effect)
EL50	Effect loading doses resulting in 50% mortality
LC50	Lethal Concentration 50%
LD50	Lethal dose 50%
NO(A)EC	No Observed (Adverse) Effect Concentration
NO(A)EL	No Observed (Adverse) Effect Level

16.2 List of relevant phrases (code and full text as stated in chapter 2 and 3)

Flam. Liq. 2	Flammable liquid, category 2
Flam. Liq. 3	Flammable liquid, category 3
Repr. 2	Toxic to reproduction, category 2
Skin Corr/Irrit 2	Skin corrosion/Irritation, category 2
Asp. Tox. 1	Aspiration hazard, category 1
STOT SE 3	Specific target organ toxicity - single exposure, category 3
STOT RE 1	Specific target organ toxicity - repeated exposure, category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Aquat. Chron. 2	Hazardous to the aquatic environment, chronic toxicity, category 2
EUH066	Repeated exposure may cause skin dryness or cracking
H225	Highly flammable liquid and vapors.
H226	Flammable liquid and vapors.
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
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May causes damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

16.3 Other information

Suggested Use Restrictions: For professional use only

Notice to reader:

The information contained in this SDS is based on our current knowledge and information gained by applicable law. Any descriptions and data given herein may be changed without prior notice. Reported information is not a guarantee of product properties and do not justify legal consequences, but provide a framework welfare of the product for particular uses.

Safety Data Sheet BITUMAC

According to regulation 1907/2006/EC (REACH), Annex II as amended by 878/2020/EU

Revision Date: 10/11/2022, Edition:06



ANNEX: EXPOSURE SCENARIO	
EXPOSURE SCENARIO 1: Widespread use by professional worker	
SECTION 1.1: Exposure scenario title	
Short title	Application of product
Use descriptors	
Sector of use code (SU)	SU22: Professional use
Product category code (PC)	PC9b - Fillers, putties, plasters, modelling clay
Process category code (PROC)	PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC0: Other - Spatula application
Environmental release category code (ERC)	ERC8f: Widespread use leading to inclusion into/onto article (outdoor)
Article Category (AC)	AC4a: Stone, plaster, cement, glass and ceramic articles: Large surface area articles AC7a: Metal articles: Large surface area articles
Procedures, tasks, activities covered	Covers the use as sealing material including exposure during use (including product transfer, storage, preparation, application by spray, roller, brush, hand or similar methods and film formation) and equipment cleaning.
SECTION 1.2: Operating conditions and risk management measures	
1.2.1 Contributing scenario controlling environmental exposure	
ERC8f: Widespread use leading to inclusion into/onto article (outdoor)	
Operational Conditions (OC)	
Product characteristics	Cold-applied bituminous mastic. Contains the following dangerous substances: Toluene (CAS: 108-88-3) <6% w/w (Vapour pressure: 4kPa at 20oC, Water solubility: 573mgr/l, logKow: 2,73, medium volatility, readily biodegradable) White spirit (CAS: 64742-82-1) <14% w/w (Hydrocarbon UVCB, Vapour pressure: 0,231 kPa at 20oC, Water solubility: Insoluble, logKow: -, low volatility, readily biodegradable)
Amount used	Approximately 150 gr/m of join (1cm x 1cm)
Conditions of use	Ambient temperature. Outdoor.
Duration and frequency of use	Emission days per year: 365 days
Other operational conditions affecting environmental exposure	Use only on hard ground
Risk Management Measures (RMM)	
Technical onsite conditions and measures to reduce or limit discharges, air emissions and	Do not let it drain into the sewage system and into surface water. Do not let it escape to the ground. The product is processed only in a concrete

Safety Data Sheet BITUMAC

According to regulation 1907/2006/EC (REACH), Annex II as amended by 878/2020/EU

Revision Date: 10/11/2022, Edition:06



releases to soil	collection basin.
Organizational measures to prevent/limit release from site	Clean up contamination/spills as soon as they occur. Provide basic employee training to prevent/minimize exposure and to report any problems that may developed
Conditions and measures related to waste water treatment	Municipal sewage treatment plant is assumed
Conditions and measures to external treatment of waste for disposal	Waste type: Partially empty and unclean packaging. Leaking material. Dispose of the product and its containers as hazardous waste. Ensure that waste is collected and contained. Must not be disposed together with household garbage. Do not allow product to reach sewage system. For more information about rejection see section 13 of MSDS. External treatment and disposal of waste should comply with applicable local and/or national regulations.
Conditions and measures relate to external recovery of waste	External recovery and recycling of waste should comply with applicable local and/or national regulations
1.2.2 Contributing scenario controlling workers exposure	
PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities	
Operational Conditions (OC)	
Product characteristics	Cold-applied bituminous mastic. Contains the following dangerous substances: Toluene (CAS: 108-88-3) <6% w/w (Vapour pressure: 4kPa at 20oC, Water solubility: 573mgr/l, logKow: 2,73, medium volatility, readily biodegradable) White spirit (CAS: 64742-82-1) <14% w/w (Hydrocarbon UVCB, Vapour pressure: 0,231 kPa at 20oC, Water solubility: Insoluble, logKow: -, low volatility, readily biodegradable)
Amount used	Without limit
Conditions of use	Ambient temperature. Outdoor.
Duration and frequency of use	Cover daily exposure 0,25-1 hours
Other operational conditions affecting worker exposure	Assumes process temperature up to 40°C. Assumes a good basic standard of occupational hygiene is implemented.
Risk Management Measures (RMM)	
Organisational protective measures	Provide a basic standard of general ventilation (1 to 3 air changes per hour). Collection of line waste in container. Retain wash downs in sealed storage pending disposal or for subsequent recycle. Clean up contamination/spills as soon as they occur. Keep away from sources of ignition - No smoking. Provide basic employee training to prevent/minimize exposure and to report any problems that may developed
Technical protective measures	No special measures required
Personal protective measures	Do not inhale gases / fumes / aerosols. Avoid contact with eyes and skin. Use appropriate personal protective equipment (overalls, gloves, glasses, shoes,

Safety Data Sheet BITUMAC

According to regulation 1907/2006/EC (REACH), Annex II as amended by 878/2020/EU

Revision Date: 10/11/2022, Edition:06



	mask) (see section 8.2.2)
PROCO: Spatula application	
Operational Conditions (OC)	
Product characteristics	Cold-applied bituminous mastic. Contains the following dangerous substances: Toluene (CAS: 108-88-3) <6% w/w (Vapour pressure: 4kPa at 20oC, Water solubility: 573mgr/l, logKow: 2,73, medium volatility, readily biodegradable) White spirit (CAS: 64742-82-1) <14% w/w (Hydrocarbon UVCB, Vapour pressure: 0,231 kPa at 20oC, Water solubility: Insoluble, logKow: -, low volatility, readily biodegradable)
Amount used	Approximately 150 gr/m of joint (1cm x 1cm)
Conditions of use	Ambient temperature. Outdoor.
Duration and frequency of use	Cover daily exposure up to 8 hours
Other operational conditions affecting worker exposure	Assumes process temperature up to 40°C. Assumes a good basic standard of occupational hygiene is implemented.
Risk Management Measures (RMM)	
Organisational protective measures	Ensure operation is undertaken outdoors. Clean up contamination/spills as soon as they occur. Keep away from sources of ignition - No smoking. Provide basic employee training to prevent/ minimize exposure and to report any problems that may developed
Technical protective measures	No special measures required
Personal protective measures	Avoid contact with eyes and skin. Use appropriate personal protective equipment (overalls, gloves, glasses, shoes) (see section 8.2.2)
1.2.3 Contributing scenario controlling consumer exposure	
There is no consumer exposure for this scenario	
SECTION 1.3: Exposure estimation	
1.3.1 Exposure estimations contributing scenario for environmental exposure	
The foreseen exposures are not expected to exceed the predicted PNECs, when the recommended Risk Management Measures (RMMs) and Operational conditions (OCs) outlined in Section 2 of scenario are implemented. When other Risk Management Measures / Operational Conditions are adopted, users should ensure that risks are managed at least at equivalent levels.	
1.3.2 Exposure estimations contributing scenario for workers exposure	
The foreseen exposures are not expected to exceed the predicted DNELs, when the recommended Risk Management Measures (RMMs) and Operational conditions (OCs) outlined in Section 2 of scenario are implemented. When other Risk Management Measures / Operational Conditions are adopted, users should ensure that risks are managed at least at equivalent levels.	
1.3.3 Exposure estimations contributing scenario for consumers exposure	
There is no consumer exposure for this scenario	
SECTION 1.4: Guidance to Downstream Users to check compliance with the exposure scenario	
1.4.1 Guidance to Downstream Users to check compliance with the contributing scenario for environmental exposure	

Safety Data Sheet BITUMAC

According to regulation 1907/2006/EC (REACH), Annex II as amended by 878/2020/EU

Revision Date: 10/11/2022, Edition:06



Confirm that RMMs and OCs are as described or of equivalent efficiency. Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination. Required removal efficiency for air can be achieved using onsite technologies, either alone or in combination. Further details on scaling and control technologies are provided in SpERC factsheet (<http://cefic.org/en/reach-for-industries-libraries.html>).

1.4.2 Guidance to Downstream Users to check compliance with the contributing scenario for workers exposure

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.