

1. IDENTIFICATION OF CHEMICAL PRODUCTS AND INFORMATION ON THE MANUFACTURER AND / OR SUPPLIER

Technical name	Bitumen oil road viscous BND 130/200
Brief recommendations for use	It is used as a binder in the construction and repair of road and airfield coverings.
Name of the organization	Bitech Limited Liability Company / Bitech LLC
Address	115533, Moscow, Nagatinskaya street, house 5, E 5, POM 503
Emergency telephone number	+7(495)215-25-21
Fax	
E-mail	info@bitech.ru
Web-site	http://bitech.ru/

2. GHS HAZARD IDENTIFICATION

Classification	The product is not classified according to the GHS.
Warning marking	
Signal word	Not applicable.
Hazard symbols	Not applicable.
H-phrases	Not applicable.
P-phrases	Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component (INCI)	Concentration (%)	Number CAS	Number EC
Asphalt (bitumen)	100	8052-42-4	232-490-9

4. FIRST AID MEASURES

In case of contact with eyes	If hot bitumen gets into the eyes, do not remove it from the eye, an urgent consultation with an optometrist. In case of contact with bitumen of normal temperature, rinse the eyes with running water.
When exposed to skin	Immediately cool the skin with water. In case of extensive burn, cover the affected area of the skin with a sterile bandage and refer it to a doctor. In case of contact with solid bitumen of normal temperature, wash it off with soap and water.
If swallowed	There are no data on oral poisoning.
Inhalation	Fresh air, peace, warmth. If necessary, seek medical help.
Most important symptoms	In case of contact with the eyes: fumes of hot bitumen cause redness of the conjunctiva. Molten bitumen is dangerous for thermal burns of the eyes!
Potential Hazardous Effects	In contact with the skin: molten bitumen causes thermal burns. Constant contact with hot bitumen vapors leads to skin diseases (dermatitis). If swallowed: this route of entry is unlikely. If inhaled: headache, dizziness, nausea, sore throat, cough.

5. FIRE FIGHTING MEASURES

Flammability	A combustible substance.
Thermal degradation products	Carbon oxides. Carbon oxides disrupt the transport and transfer of oxygen to tissues, developing oxygen deficiency of the body, to which the nervous and cardiovascular systems are particularly sensitive. Poisoning is accompanied by headache, pounding in the temples, dizziness, dry cough, chest pain, nausea, vomiting. Possible excitement, accompanied by visual and auditory hallucinations, redness of the skin, palpitations.
Fire and explosion safety	Boiling point: > 450 °C Ignition temperature: >220 °C Auto-ignition temperature: >368 °C
Extinguishing methods	When small amounts of bitumen catch fire, it should be extinguished with sand, a cat or a foam fire extinguisher, developed bitumen fires should be extinguished with a foam jet.
Extinguishing specificity	If there is a fire, clear the area and remove all nearby people. Without proper training, do not take actions that endanger your life. If there is

Material Safety Data Sheet	Bitumen oil road viscous BND 130/200	Total Pages 5
		Page 2

no risk, remove the product away from the fire.

Do not use direct water jets on the burning product; they may cause splashing and spreading of fire. Extinguish from a safe distance, cool the containers with finely sprayed water.

Firefighter's combat clothing (jacket and trousers with removable thermal insulation pads) complete with a fire rescue belt, mittens or gloves, a fire helmet, special protective shoes.

6. MEASURES IN CASE OF ACCIDENTAL RELEASE/LEAKAGE

Individual precautions

It is necessary to remove extraneous. Security measures must be observed. It is necessary to eliminate the sources of fire. Don't smoke. It is necessary to use protective clothing and personal protective equipment in the accident zone. Prevent the ingress of substances into water bodies, basements, sewer.

Environmental precautions

Maximum sealing of tanks, communications and other equipment; periodic monitoring of harmful substances in the air of the working area; air purification of industrial premises to established standards before discharge into the atmosphere.

Contamination and cleaning

In case of intensive leakage, protect with an earthen rampart. In case of a small spill, let the bitumen solidify, collect the spoiled product in a container and send it for processing or destruction (incineration in a specially designated place).

Do not allow product to reach surface, groundwater, sewers, soil.

7. HANDLING AND STORAGE

Precautions and safe handling

In the manufacture of products, the premises must be equipped with forced-air and exhaust ventilation, ensuring clean air of the working area.

Persons associated with the production of products should be provided with overalls and personal protective equipment - rubber gloves, gloves, goggles for protection of the organs of vision, and a filter respirator for respiratory protection.

Wash contaminated clothing before reuse. Do not remove contaminated clothing from the workplace. Do not eat, drink or smoke when using this product. Always wash your hands after handling the product.

Precautionary measures

Safe storage

Bitumen should be stored in tanks equipped with fixed or portable heating facilities. Tanks must be protected against static electricity.

Store in a dry, cool place with sufficient ventilation, away from open flames and sources of high temperature.

The guaranteed shelf life of bitumen is one year from the date of manufacture.

8. INDIVIDUAL PROTECTION MEANS

Individual protection

Equipment

Control

Individual protection means

Eye protection



Respiratory Protection



Hand skin protection



Special tools

Absent

9. PHYSICAL AND CHEMICAL PROPERTIES

Specifications	Indicators
Appearance (physical condition, color)	Black viscous liquid at high temperatures, solid at ambient temperature
Smell	Does not differ in smell at room temperature
Softening temperature, °C	From 40 and above
Penetration	131-200
Boiling point, °C	More than 450
Ignition temperature, °C	More than 220
Self-ignition temperature, °C	Not lower than 368
Vapor pressure	< 0,75 mmHg 180 °C
Relative density	0,98-1,06
Self-ignition temperature, °C	More than 368 in the air
Viscosity	Kinematic viscosity at 135°C, cSt = 220-420, Dynamic viscosity at 60 °, Pa c = 90-350
Oxidizing properties	It is oxidized at a temperature of more than 160 ° C with oxygen in the air, boiling when water enters hot bitumen

10. STABILITY AND REACTIVITY

Chemical stability

The product is chemically stable under normal conditions of storage, transportation and use.

Solubility

Insignificant in water, in toluene 99.0%

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Toxicological information is indicated by component:

Asphalt (bitumen):

LD₅₀ (oral, rat) > 5000 mg/kg

LC₅₀ (inhalation, rat, 4,5 h) > 94,4 mg/m³

LD₅₀ (dermal, rabbit) > 2000 mg/kg

Respiratory or skin sensitization

The products do not have a sensitizing effect.

Mutagenicity

There is no data indicating that the product or any components present in an amount of more than 0.1% are mutagenic or genotoxic.

Carcinogenicity

None of the components of this product present in amounts greater than or equal to 0.1% is classified by IARC as a probable, possible or confirmed carcinogen for humans.

Reproductive toxicity

May adversely affect the ability to procreate or the unborn child.

Specific target organ toxicity - single exposure

Not classified as specific target organ toxicant.

Specific target organ toxicity - repeated exposure

Not classified as specific target organ toxicant.

Aspiration hazard

The product is not classified as hazardous when aspirated.

Chronic effects

No information.

12. ENVIRONMENTAL INFORMATION

Aquatic microorganisms

No information.

Material Safety Data Sheet	Bitumen oil road viscous BND 130/200	Total Pages 5
		Page 4

Persistence and degradability	No information.
Bioaccumulation potential	No information.
Soil mobility	No other adverse environmental effects (e.g. ozone depletion, endocrine disruptions, global warming potential) are expected from this component.

13. WASTE MANAGEMENT

Wastes of production are neutralized in accordance with sanitary norms and rules approved in the established manner.
The issues of disposal and elimination of product waste in the production process should be carried out on a contractual basis with a company licensed for waste disposal.
Do not allow products to enter sewage surface or groundwater, sewers, or soil.

14. TRANSPORT INFORMATION

14.1 Number UN	1999
14.2 Proper shipping and transport names	<i>Proper shipping name:</i> TAR, LIQUID, including road bitumen and liquid bitumen <i>Shipping Name:</i> Bitumen oil road viscous
14.3 Types of transport risks	
<i>International Civil Aviation Organization/ International Air Transport Association (ICAO / IATA)</i>	
Danger / Class / Division	
Environmental hazards	
Signs	3L
<i>International Maritime Dangerous Goods Code (IMDG)code</i>	
Danger / Class / Division	
Danger to the aquatic environment	
Signs	F-E S-E
<i>The Intergovernmental Organisation for International Carriage by Rail(MKMPOG) /European agreement concerning the transport of dangerous goods (DOPOG)</i>	
Danger / Class / Division	3
Signs	3
Code	F1
14.4 Group packing	III
14.5 Environmental risks	Absent
14.6 <i>Environmental risks with the app. II to the International Convention for the prevention of pollution from ships (MARPOL) 73/78 n code International Code for the Construction and Equipment of Ships, Carriers Dangerous Chemicals in Bulk (MRG)</i>	Does not concern
14.7 Special precautions	Absent

15. REGULATORY INFORMATION

HEALTH

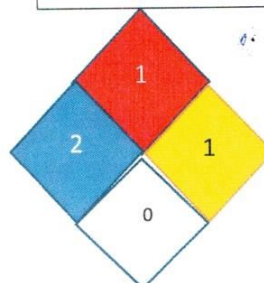
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Material Safety Data Sheet	Bitumen oil road viscous BND 130/200	Total Pages 5 Page 5
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HMIS

FLAMMABILITY	1
PHYSICAL HAZARD	1
PERSONAL PROTECTION	F

NFPA



REACH

GHS

MDGC

ICAO/IATA

Application II MARPOL 73/78

RID

ADR

16. ADDITIONAL INFORMATION

We believe that the information contained here is current as of the date of this Material Safety Data Sheet and is offered in good faith. Since the use of this information and these opinions and terms of use of the product are not under the control of Bitech LLC, it is the user's obligation to determine the conditions for the safe use of the product.

Gathered information:

Bitech LLC

Actual date:

17.01.2022

Disclaimer:

The information provided in this Material Safety Data Sheet is based on data that is believed to be accurate at the date of preparation of this Material Safety Data Sheet. No liability is accepted for any damage or injury caused by abnormal use or due to non-compliance with recommended practices. The above information and the product are provided provided that the person receiving them must make their own determination as to the suitability of the product for their specific purpose and provided that they accept the risk of their use. In addition, no permission is granted or implied for the application of any patented invention without a license. The above information is believed to be accurate and reflect the information available to the manufacturer. However, this does not entail a guarantee for all the specific characteristics of the goods and does not serve as a basis for the emergence of contractual relations from a legal point of view. Current laws and regulations must be respected by the manufacturer's successor at their own risk.

General Director

Bitech LLC

Koryakin Vadim Vladimirovich

Print place

