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Viscous petroleum road bitumen grade BND 100/130

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

Technical name Viscous petroleum road bitumen grade BND 100/130

Name of the organization "Bitch", Limited Liability Company (Bitch LLC)

Address 115533, Moscow, Nagatinskaya street, house 5, E 5, POM 503

Emergency telephone number +7(495)215-25-21

Fax

E-mail info@bitekh.ru

Web-site http://bitekh.ru/

2. GHS HAZARD IDENTIFICATION

Classification The product is not classified according to GHS.

Warning marking

Signal wordNot applicable.Hazard symbolsNot applicable.H-phrasesNot applicable.P-phrasesNot applicable.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component (INCI)	Concentration (%)	Number CAS	Number EC
Viscous petroleum road bitumen grade BND 100/130	100	8052-42-4	232-490-9

4. FIRST AID MEASURES

medical attention immediately. In case of contact with bitumen of

normal temperature, rinse eyes with running water.

When exposed to skin If molten bitumen gets on the skin, immediately cool the skin with

water. In case of extensive burns, cover the affected skin area with a sterile bandage and refer to a doctor. In case of contact with solid

bitumen of normal temperature, wash with soap and water.

If swallowed This route of entry into the body is unlikely. If bitumen is swallowed,

rinse mouth with water, drink plenty of water. Seek medical attention.

Inhalation Fresh air, peace, warmth. Seek medical attention if necessary.

Most important symptoms When inhaling vapors of heated bitumen: headache, dizziness, nausea,

Potential Hazardous Effects sore throat, cough, lacrimation.

If heated bitumen gets into the eyes: redness, pain, burns.

When exposed to heated bitumen on the skin: redness, pain, burns.

If swallowed - this route of entry is unlikely.

5. FIRE FIGHTING MEASURES

Flammability Combustible substance.

Thermal degradation products

In the process of combustion and thermal destruction, toxic carbon

oxides are formed.

Carbon monoxide disrupts the transport and transfer of oxygen to tissues, oxygen deficiency of the body develops. Symptoms of poisoning: headache, dizziness, blurred vision, nausea, vomiting, loss

of consciousness.

Carbon dioxide in a fire causes increased breathing and increased pulmonary ventilation, has a vasodilating effect. Symptoms of poisoning: increased heart rate, increased blood pressure, migraine

pain, headache, dizziness, lethargy, loss of consciousness.

Fire and explosion safety Flash point in an open crucible > 230 °C;

Self-ignition temperature in air > 368 °C; Lower flammability limit: 0.7% vol.; Upper flammability limit: 6% vol.

Extinguishing Methods Sand, felt, carbon dioxide, foam fire extinguishers.

DO NOT use water.

Extinguishing Specificity Extinguish from a safe distance, taking precautions.

Firefighter's combat clothing (jacket and trousers with removable insulating linings) complete with a lifeguard belt, mittens or gloves, a

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C NECKNOTES DE COMP	fire helmet, and special protective shoes.
6. MEASURES IN CASE OF ACC	
Individual precautions	Remove strangers. Observe fire safety measures. No smo Eliminate sources of fire and sparks. It is necessary to use overall personal protective equipment in the accident zone. Provide first the injured.
Environmental precautions	Maximum sealing of containers, communications and equipment; periodic monitoring of the content of harmful substing the air of the working area; air purification of industrial premi established standards before discharge into the atmosphere. Deallow product to enter waterways.
Contamination and cleaning	Use water spray to isolate vapors. Straits after cooling should be over, collected in a container, hermetically sealed and ser disposal. Cut off the surface layer of soil with pollution, collectake out for disposal in compliance with safety measures. Covecuts with a fresh layer of soil. Rinse the surface of the rolling with detergent compositions.
7. HANDLING AND STORAGE	with detergent compositions,
Precautions and safe handling	The premises must be equipped with general exchange and supply and exhaust ventilation, which ensures the cleanliness of t in the working area. Observe safety and fire safety regulations explosion-proof equipment. Do not drink, eat or smoke when handling the product. Wash I thoroughly after handling. Observe the rules of personal hygiene. It is necessary to use personal protective equipment: filter respir
Precautionary measures	gloves, goggles, overalls, safety shoes. Avoid contact with eyes. Do not inhale. Do not swallow. Do not to skin and mucous membranes.
Safe storage	Bitumen should be stored in tanks equipped with fixed or por heating equipment. It is allowed to store bitumen on open asphalt or concrete sites. Guaranteed shelf life – 1 year from the date of manufacture.
8. INDIVIDUAL PROTECTION N	MEANS
Individual protection Equipment Control	Production facilities must be equipped with general exchange supply and exhaust ventilation, ensuring the purity of the air i working area.
Individual protection means	When working, it is necessary to use individual protective equipartitle respirators, rubber gloves, goggles, overalls.
Eye protection	
Respiratory Protection	
Hand skin protection	The state of the s

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Special tools	Absent	
. PHYSICAL AND CHEMICAL PI		
Specifications	Indicators	
Appearance (physical condition, color)	Black viscous liquid at high temperatures, solid at ambient	
Appearance (physical condition, color)	temperature	
Odour	No odor at room temperature	
Odor threshold	No data	
Concentration of hydrogen ions (pH)	No data	
Softening temperature, °C, not less	45	
Penetration	101 - 130	
Initial boiling point, °C, not less	450	
Vapor pressure at 180 °C, mmHg, no more	e 0.75	
Relative density, g/cm ³	0.98 - 1.06	
Decomposition temperature, °C	No data	
Kinematic viscosity at 135 °C, cSt	220 – 420	
Dynamic viscosity at 60 °C, Pa	90 – 350	
Oxidizing properties	Oxidizes at a temperature of more than 160 ° C with atmospher oxygen, boils up when water enters hot bitumen	
), STABILITY AND REACTIVITY	Y	
hemical stability	The product is chemically stable under normal conditions of sto	
	transportation and use.	
lubility	Slightly soluble in water, solubility in toluene - 99.0%.	
I. TOXICOLOGICAL INFORMA		
cute toxicity	Not classified as dangerous product. LD ₅₀ (oral, rat) > 5 000 mg/kg;	
	LD_{50} (oral, rat) ≥ 5 000 mg/kg, LD_{50} (dermal, rabbits) ≥ 2 000 mg/kg.	
espiratory or skin sensitization	Sensitizing effect not established.	
lutagenicity	There is no data indicating that the product is mutagenic or genotox	
arcinogenicity	Bitumen is not classified as a probable, possible or confirmed hu	
annoductive toxicity	carcinogen by IARC. It does not have a negative effect on the reproductive function of	
eproductive toxicity	body.	
pecific target organ toxicity -	Not classified as specific target organ toxicant.	
ngle exposure	STATE OF THE STATE	
pecific target organ toxicity - epeated exposure	Not classified as specific target organ toxicant.	
spiration hazard	Not classified as presenting an aspiration hazard.	
hronic effects	No information	
2. ENVIRONMENTAL INFORMA	ATION	
quatic microorganisms	There is no evidence of any significant effect or harmful effects of	
	products on aquatic organisms.	
ersistence and degradability	No information No information	
ioaccumulation potential oil mobility	No information	
ther adverse effects	No other adverse environmental impacts (eg ozone depletion, endo	
	disruption, global warming potential) are expected from the product	
3. WASTE MANAGEMENT		
	Wastes of production are neutralized in accordance with sanitary n	
	and rules approved in the established manner.	
	Recycling and disposal of waste in the production process by agree with a company that has a license for waste disposal.	
4. TRANSPORT INFORMATION	The a company than the a receive to that a dopount	
4.1 Number UN	Not applicable for bitumen in solid state.	
	3257 for hitumen transported in the malten state	

3257 – for bitumen transported in the molten state.

Shipping Name for bitumen transported in the molten state:

14.2 Proper shipping and transport names

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16. ADDITIONAL INFORMATION

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ELEVATED TEMPERATURE LIQUID, N.O.S., at or above 100 °C and below its flash-point. Transport Name: Viscous petroleum road bitumen grade BND 100/130 14.3 Types of transport risks International Civil Aviation Organization/ International Air Transport Association (ICAO / IATA) Danger / Class / Division Environmental hazards 9L International Maritime Dangerous Goods Code (IMDG)code Danger / Class / Division Danger to the aquatic environment F-A S-P The Intergovernmental Organisation for International Carriage by Rail(MKMPOG) European agreement concerning the transport of dangerous goods (DOPOG) Danger / Class / Division 9 Signs 9 M9 Code 14.4 Group packing III 14.5 Environmental risks Absent. **14.6** Environmental risks with the app. II to Does not concern. the International Convention for the prevention of pollution from ships (MARPOL) 73/78 и code International Code for the Construction and Equipment of Ships, Carriers Dangerous Chemicals in Bulk (MRG)14.7 Special precautions Absent. 15. REGULATORY INFORMATION **HMIS** PERSONAL **PROTECTION NFPA** REACH 1 **GHS MDGC** ICAO/IATA Application II MARPOL 73/78 RID ADR

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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 control Bitekh LLC, user obligation to determine the conditions for the safe use of the product.

Gathered information:

Bitekh LLC

Actual date: 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 under his responsibility.

General director

Bitekh LLC

/ Koryakin Vadim Vladimirovich

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