

Based on resolution (EC) 1907/2006 of Parliament and Council of Europe (REACH) ISO 11014:200, WHMIS-Canada, EU/830/2015

Trade name: Polybutadiene rubber, neodymium PBR (SKDN)

Date of elaboration: 2010-10

Updated: 2019-06

Revision: 2.4 instead of v.2.3 from 2018-05

1 Identification of substance/mixture Identification of company/enterprise

Identification of substance/mixture: Polybutadiene rubber

Neodymium PBR (SKDN)
REACH registration number: Butadiene (monomer) 01-2119471988-16-0032

Synonyms: Polybutadiene

Molecular formula: (-CH2-CH=CH-CH₂-)_n

Application: Tire industry and production of rubber technical

goods

1.3 Producer/importer/distributor:

Supplier/producer PJSC Nizhnekamskneftekhim

Address RF, Tatarstan, 423574, Nizhnekamsk

PJSC Nizhnekamskneftekhim

Telephone/fax +7(8555)377445

MSDS prepared by: e-mail: ...nknh@nknh.ru...

ShuvalovaOV@nknh.ru, BayazitovaLH@nknh.ru

Special representative:

Designation Oy Nizhex Scandinavia Ltd

Address Wavulinintie 10

HELSINKI 00210

Finland
Jari Taipale
+35 896824700

e-mail: jari.taipale@nizhex.fi

Emergency telephone number: To be specified in each country by the con-

- product recipient country sumer. See Section 16 of this SDS

- country of origin +7 (8555) 37-72-07, (8555) 37-78-30, +7 (8555) 37-72-65, (8555) 37-74-45

8.00 am - 5.00 pm in workdays

2 Identification of hazard

2.1 Classification

Telephone/fax

This product is **not** classified as hazardous according to Directives 67/548/EC, 1999/45/EC и Постановлению (EC) №1272/2008 (CLP)

Information on special hazards for humans and environment:

Negative physical and chemical effects: none

SKD-N rubber



Based on resolution (EC) 1907/2006 of Parliament and Council of Europe (REACH) ISO 11014:200, WHMIS-Canada, EU/830/2015

Adverse health effects and their symptoms:

Eye contact For open systems where the contact is most probable the particles may

hurt the surface of the eye and cause mechanical irritation.

Skin contact In case of contact with heated polymer: redness of skin, pain, burn

injury.

Inhalation Rubber does not contain high volatile fractions, no pollutant emissions

during storage.

Ingestion Ingestion is unlikely. It does not pose a hazard to health if swallowed.

Adverse environmental impact: No environmental threat

2.2 Label elements not applicable

2.3 Other hazards: transformation in the environment at long-term atmospheric effects (atmospheric precipitation, solar radiation and cold or high temperatures).

3 Composition / Information on components

3.1 Substance information

Chemical name/ Synonyms	EC number	REACH number	Index number	CAS number	Concen- tration	Classification based on Resolution (EC) No. 1272/2008 [CLP]			
					(%)	Class of hazard / category of hazard	Symbol hazard	of	
Polybutadiene rubber (PBD)/ Polybutadiene -(-CH ₂ - CH= CH- CH ₂ -) _n - (- CH ₂ - CH+) _m - CH CH ₂ CH+ CH+	none	No registra- tion required	none	9003-17-	>99,4	Not classified			
Stabilizers:									
4,6-bis(octylthiomethyl)- o-cresol / Irganox 1520L line - (CR 2) y - 5 - CR 2 line or (CR 2) y - 10 - CR 2 y - 1	402- 860-6	No registra- tion required	none	110553- 27-0	>0,2	Not classified			

4 First aid measures

4.1 Description of first aid measures

General: Low hazard material. Intoxication through entry to human body has not

been defined and unlikely.

Inhalation: It has no effect at environmental temperature.

Skin contact: It has no effect at environmental temperature. Wash with water and

soap.

Eye contact: Wash with plenty of water until the product is removed from eyes.

Ingestion: No influence. When small amount of rubber crumb swallowed, no spe-

cial measures should be taken.

Advice to physician: none



Based on resolution (EC) 1907/2006 of Parliament and Council of Europe (REACH) ISO 11014:200, WHMIS-Canada, EU/830/2015

4.2 Most important symptoms and effects, both acute and delayed

Eye contact For open systems where the contact is most probable the particles may

hurt the surface of the eye and cause mechanical irritation.

Skin contact In case of contact with heated polymer: redness of skin, pain, burn

injury.

Inhalation Rubber does not contain high volatile fractions, no pollutant emissions

during storage.

Ingestion Ingestion is unlikely. It does not pose a hazard to health if swallowed.

4.3. Indication of any immediate medical attention and special treatment needed

Consult a doctor.

5 Fire safety measures

5.1 Extinguishing media

Recommended fireextinguishing means Dry chemical foam, fine sprayed water or mist, carbon dioxide, sand or earth could be used only in case of small fire. Fire-

extinguishers of any type, water, vapor, fire-extinguishing foams,

inert gases, sand, asbestos cloth.

Prohibited fireextinguishing means Prohibited fire extinguishing means are not established.

5.2 Special exposure hazards arising from the substance or mixture

Carbon oxides and dioxides. When heated the product could decompose to form carbon oxide, separation of butadiene is possible. Carbon oxides reduce oxygen (O₂) content in the air, they could have a toxic effect on the cells causing the cell respiration

disturbance.

Butadiene – narcotic action at high concentrations, mucous membrane irritation at low concentrations, functional deviance in

the central nervous system.

5.3 Advice for fire

fighters

Use a fire-resistant suit and a self-contained breathing apparatus Remove personnel not participating in fire-fighting from the site of

the fire.

6 Measures of prevention and management of emergencies

Use a fire-resistant suit and a self-contained breathing apparatus

6.1 Individual protection means6.2 Environmental protection measures

Contamination of water bodies and soil should be excluded.



Based on resolution (EC) 1907/2006 of Parliament and Council of Europe (REACH) ISO 11014:200, WHMIS-Canada, EU /830/2015

6.3 Methods of neutralization, removal

and cleaning

6.4 Supplementary recommendation

Solid product in the form of bales.

Collect the product and put it in the appropriate containers for

disposal or reuse.

None

Handling and storage

7.1 Handling

Advice on safety handling

Protective measures Arrangement of suction-and-exhaust ventilation and local ventilation

system.

Use of hermetically sealed equipment in production. Equipment grounding is a mandatory requirement.

Use of personal protective equipment.

Incompatible substances

Storage together with oxidizers, acids or alkalis shall not be allowed.

Measures for prevention of spraying and dusting Safeguards for the environment Industrial health:

Provide dilution-exhaust ventilation and local ventilation. Use closed production equipment. Use only in places with adequate ventilation. Reduction of rubber losses during transportation and storage, prevent

discharges to water basins and sewerage.

Use of personal protective equipment. After working with the product

should be washed.

7.2 Conditions for safe storage

Precautions against fire and explosion:

Avoid open flame sources. Use a tool which does not cause a spark

Technical measures and conditions of storage:

Product is stored indoors at ambient temperature, beyond the reach of fire sources, direct sunlight and atmospheric precipitations, away

from heat sources.

Rubber packed in the woven polypropylene bags is stored in the

stacks not higher than 1.2 meters

Rubber packed in the box pallets is stored in the stacks with no more

than four pallets in the stack

Packaging materials:

- polystyrene film;

- polyethylene film;

- woven polypropylene bags;

- multipurpose plastic container;

- wooden box pallet;

Requirements to the premises and storage tanks Indoor temperature should not exceed 30°C.

SKD-N rubber



Based on resolution (EC) 1907/2006 of Parliament and Council of Europe (REACH) ISO 11014:200, WHMIS-Canada, EU /830/2015

Other information on storage conditions

The period of storage is 1 year maximum.

7.3 Specific end uses: no

8 Exposure control and personal protective equipment

8.1Exposure limits. Due to physical and chemical properties and low toxicity there is no

Threshold limit value/relatively safe level of hazardous substances in the

working area

8.2 Exposure control at the Ensuring that the content of harmful substances is within

permissible concentrations by using combined extract and input working place

ventilation in locations of the most contaminant air.

requirement for establishment of hygienic rating in the air.

Individual protection means Use protective clothing made of cotton fabric.

Respiratory protection Not required under normal operating conditions. In case of

emergency – filter gas-mask, breating masks.

Hand protection Gloves made of cotton fabric.

Eye protection: Only in the case of crushing of material in the open systems.

Skin protection Protective clothing made of cotton fabric.

Control of environmental Concentration of pollutants should be measured in the process of

thermal treatment. impact

Consumer exposure control: Not used in everyday life.

Physical and chemical properties

9.1 Information on basic physical and chemical properties

Solid product bale of white color. Appearance

Odor No odor or slight odor

Not established Odor threshold Not applicable pН Not applicable Boiling temperature Freezing temperature/melting point Above 150 C° Not applicable Flash point Explosive limits/limits of flammability in the air Not applicable Above 303°C

Self-ignition temperature Vapor pressure Not applicable Density 0.9 g/cm3 at 20°C

Solubility in water Not soluble

Solubility in other solvents Soluble in hexane, toluene, benzene, chloroform,

carbon tetrachloride

9.2 Other information none



Based on resolution (EC) 1907/2006 of Parliament and Council of Europe (REACH) ISO 11014:200, WHMIS-Canada,

EU /830/2015

10 Stability and reactivity

Contains stabilizer

10.1 Activity Oxidized, hydrogenated, halogenated reacted with bromine, thiols,

maleic anhydride, chloral, nitroso compounds, carbenes.

Extremely stable under normal conditions 10.2 Stability

10.3 Possibility of Upon contact with an open flame is lit smoky flame

dangerous reactions

Heating above the melting temperature. Avoid contact with oxidiz-10.4 Conditions resulting in

ing agents, acids, alkalis. dangerous reactions

10.5 Materials causing Strong oxidizers, acids, alkalis, combustible and easily flammable

dangerous reactions substances.

10.6 Dangerous Carbon oxides, butadiene

decomposition products

11 **Toxicological properties**

11.1. Information on toxicological effects

Oral toxicity at single inges-Non toxic

tion

Skin toxicity at single expo-Non toxic

sure

Toxicity at inhalation at single Non toxic

exposure

Skin irritation Causes no irritation Eye irritation Causes no irritation Irritation of respiratory tract Causes no irritation

Sensibilization **Absence** Toxicity at repeated dosage Absence Mutagenicity Absence

Carcinogenicity Not established

Toxicity for reproductive

function and development

12 Environmental impact

12.1 Toxicity:

Ecotoxicity: Rubber bales do not pose a hazard for environment

Transforms in the environment at long weather impact (atmospheric 12.2 Persistence and

precipitation, solar radiation, cold, high temperatures). degradability:

12.3 Bioaccumulative

potential:

12.4 Mobility:

Solid product

Non cumulative

Absence

12.5 PBT/vPvB: Does not meet criteria.

> SKD-N rubber Page 6 / 9



Based on resolution (EC) 1907/2006 of Parliament and Council of Europe (REACH) ISO 11014:200, WHMIS-Canada, EU /830/2015

Not established 12.6 Other negative effects:

Utilization and/or disposal of waste (remains) 13

13.1 Methods of waste (remains) disposal

Solid waste generated in the course of rubber processing is not toxic, it does not require neutralization and is subject to processing. Non-treatable waste is subject to incineration at the specialized landfill.

Code of waste

07 02 99 wastes from the MFSU of synthetic rubber (not otherwise specified)

Safety requirements during transportation 14

ADR / RID Not classified Not classified **IMDG IATA** Not classified IMO Not classified

Packaging group Classification code

Hazard identification number

UN number Not classified

Precise name for transporta-Synthetic rubber SKD-N (Каучук СКД-N)

Not classified

tion

Class

15 Regulatory information

National legislative documents:

Resolution (EC) 1907/2006 of the Parliament and the Council of Europe dated 18.12.2006 concerning registration, evaluation and authorization and restriction of chemicals (REACH), establishing the European Chemical Agency and adding the Directive 1999/45/EC and cancelling the Resolution of the Council (EEC) 793/93 and the Resolution of Commission (EC) 1488/94 as well as the Directive of the Council 76/769/EEC and the Directives of Commission 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

16 **Supplementary information**

Information sources: ESIS - European Chemical Substances Information System (European Chemicals Bureau). Hazardous Substance Data Bank (HSDB) – U.S. National

Library of Medicine, 2001-1

ECHA – European Chemical Agency



Based on resolution (EC) 1907/2006 of Parliament and Council of Europe (REACH) ISO 11014:200, WHMIS-Canada, EU/830/2015

Changes:

Version: 2.2 Revision due to the requirements of the EU / 830/2015 Directive

2.3 Update at the request of the consumer

2.4 Section 1 application, Section 16 Phone numbers

National emergency telephone numbers:

Country	Phone number				
Austria	+43 1 406 43 43				
Belgium	070 245 245				
Bulgaria	0887 088 440				
Croatia	+385 1 2348 342				
Cyprus	+35722405611, +357 22 40 56 08				
Czech Republic	+420 224 919 293, +420 224 915 402				
Denmark	+45 82 12 12 12, Tel: +45 72 54 40 00				
Estonia	+372 62 69 379, +372 794 3500				
Finland	0800 147 111, 09 471 977				
France	+ 33 (0)1 45 42 59 59, +33 3 83 22 50 50				
Germany	+49 30-18412-3460, + 49 (0) 231 9071 2971				
Greece	(0030) 2107 793 777				
Hungary	(+36-80) 201-199				
Iceland	+354 543 2222, +354 543 1000				
Ireland	+353 1 8092566, 1 8379964				
Italy	+39 0649906140, +39 0649902064, +39 06 68593726				
Latvia	+371 67032600, +371 67042473				
Liechtenstein	+423 236 64 00				
Lithuania	+ 370 70662008, 8-5 236 20 52				
Luxembourg	+ 352 24785551, 070 245 245				
Malta	+356 2395 2000, (356) 25454184 / 25454286				
Netherlands	+31 88 75 585 61				
Norway	+47 73 58 05 00, 22 59 13 00				
Poland	+48 42 25 38 400, +48 42 2538 424; +48 42 2538 427				
Portugal	+ 351 213 303 271, 808 250 143				
Romania	+40 21 318 36 06, +40 21 207 11 06				
Slovakia	+ 421 2 5465 2307, +421 2 4854 4511				
Slovenia	+386 1 400 60 51				
Spain	+34 917689800, + 34 91 562 04 20				
Sweden	112, +46104566750, 010-456 6700				
United Kingdom	+44 121 507 4123				

Legend of abbreviations

№ CAS – registry number of the substance in Chemical Abstracts Service

№ EC – EINECS and ELINCS Number

CLP - Classification, Labelling and Packaging

PBT – Persistent, Bioaccumulative and Toxic substance



Based on resolution (EC) 1907/2006 of Parliament and Council of Europe (REACH) ISO 11014:200, WHMIS-Canada, EU/830/2015

vPvB – very Persistent, very Bioaccumulative substance

DNEL - Derived No Effect Level

DMEL – Derived Minimum Effect Level

PNEC - Predicted No Effect Concentration

LD-50 – Lethal Dose to 50% of a test population (Median Lethal Dose)

LC-50 – Lethal Concentration to 50 % of a test population

NOAEC - No observed Adverse Effect Levels

EC-50 – half maximal Effective Concentration

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail

ADN – European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG – International Maritime Dangerous Goods

IATA – International Air Transport Association

IMO – International Maritime Organization

SU – Sector of Use

PROC – Process Category

Information in this Safety Data Sheet is based on the current state of knowledge and legislation in force and refers solely to the description of rules for safe work with the product. This product should not be used for purposes other than those specified in section 1. The consumer is fully responsible for fulfilling of all the requirements of local rules and laws. The above information shall not guarantee the product quality.