

MATERIAL SAFETY DATA SHEET



In accordance with Regulation (EC) №1907/2006 of the Parliament and Council of Europe (REACH), ISO11014,
WHMIS-Canada, EU /830/2015

Trade name: *Butadiene-styrene rubber S-SBR 2012*

Date of print: 2013-02-07

Date of revision: 2020-03

Edition: 3.0 instead of v. 2.0 from 2013-06

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Identification of the substance/preparation:

Butadiene-styrene rubber S-SBR 2012

REACH monomers registration number:

Butadiene (monomer): **01-2119471988-16-0032**

Styrene (monomer): **01-2119457861-32-0004**

Synonyms:

Butadiene-styrene rubber

1.2 Application:

ABS resin, tire and technical rubber industry

1.3 Producer/Importer/Distributor:

Supplier/Producer:

PJSC Nizhnekamskneftekhim

Address:

Russia, Republic of Tatarstan, 423574 Nizhnekamsk

Telephone/Fax:

+7(8555)377445

Person responsible for MSDS:

e-mail: ...nknh@nknh.ru...

ShuvalovaOV@nknh.ru,

BayazitovaLH@nknh.ru

1.4 Only representative:

Name

Oy Nizhex Scandinavia Ltd

Address:

Wavulinintie 10

HELSINKI 00210

Finland

Jari Taipale

Telephone/Fax:

+35 896824700

e-mail

jari.taipale@nizhex.fi

1.5 Emergency telephone:

- recipient country

Indicated by user in each country

Refer to Section 16 of this Safety Data Sheet.

- producer country

+7 (8555) 37-72-07, (8555) 37-78-30,

+7 (8555) 37-72-65, (8555) 37-74-45

From 8.00 to 17.00 on weekdays

2 HAZARD IDENTIFICATION

2.1 Classification of the substance:

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This product is **not** classified as hazardous according to Regulation (EC) № 1272/2008 (CLP). The substance is non-hazardous, non-toxic. At room temperature, it has no harmful effects on a human body.

Information on special hazard for human and environment:

Negative physical and chemical effects: none

It has no effect at environment temperature.

Skin: In case of contact with heated product: redness of skin, pain, burn injury.

Eyes: For open systems where the contact is most probable the product particles may hurt the surface of the eye and cause mechanical irritation. As a result of thermal decomposition: eye pain, tearing, redness, irritation, burning.

Inhalation: Rubber does not contain high volatile fractions, no pollutant emissions during storage. Symptoms can be only as a result of thermal decomposition such as irritation of upper respiratory tract, asthma, cough, tearing, nausea, drowsiness, headache, faint.

Ingestion: Intoxication symptoms are not established. IF swallowed may cause GIT irritation, as any foreign body.

Negative Environmental Exposure: Not hazardous to environment

2.2 Label elements: Not applicable

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

3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance related information:

Chemical name/ Synonyms	EC No.	REACH No.	Index No.	CAS No.	Amount (%)	Classification according to Regulation (EC) No 1272/2008 [CLP]	
						Hazard classes / Hazard categories	Hazard identification
Block copolymer of butadiene and styrene ([(C ₈ H ₈) _m (C ₄ H ₆) _n] _x)	No	Not subject to registration	No	9003-55-8	99.7	Not classified	
Stabilizers:							
4,6-bis(octylthiomethyl)-orthocresol/ Irganox 1520L	402-860-6	Not subject to registration	No	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 environment temperature.

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Skin contact:	It has no effect at environment temperature. Wash with water and soap. In case of contact with hot product, wash immediately with plenty of cold water. Apply a bandage made of clean gauze or cotton fabric.
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 special measures should be taken.

4.2 Most important symptoms and effects, both acute and delayed

It has no effect at environment temperature.

Skin: In case of contact with heated product: redness of skin, pain, burn injury.

Eyes: For open systems where the contact is most probable the product particles may hurt the surface of the eye and cause mechanical irritation. As a result of thermal decomposition: eye pain, tearing, redness, irritation, burning.

Inhalation: Rubber does not contain high volatile fractions, no pollutant emissions during storage. Symptoms can be only as a result of thermal decomposition such as irritation of upper respiratory tract, asthma, cough, tearing, nausea, drowsiness, headache, faint.

Ingestion: Intoxication symptoms are not established. IF swallowed may cause GIT irritation, as any foreign body.

4.3 Recommendation for emergency medical service and special treatment

Consult a physician.

5 FIRE-FIGHTING MEASURES

5.1 Fire-extinguishing means

Recommended fire-extinguishing 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.
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Prohibited fire-extinguishing means.	Prohibited fire extinguishing means are not established.
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5.2 Special hazards of contact with substance or mixture

When heated, the product decomposes with generation of carbon oxides and dioxide, separation of butadiene is possible. Carbon oxides decrease the oxygen content (O₂) in the air and they could give a toxic effect on cells, causing cell respiration disturbance.

Butadiene – narcotic action at high concentrations, mucous membrane irritation at low concentrations, functional deviance in the central nervous system.

Styrene causes eye, skin and respiratory tract irritation, repeated or

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5.3 Recommendations for fire-fighters

prolonged inhalation may cause asthma. It has effects on central and peripheral nervous systems, lungs, liver, kidneys, immune system. Wear fully protective gear and self-contained breathing apparatus. Take away the personnel not engaged in the fighting from the site of the fire.

6 MEASURES OF PREVENTION AND MANAGEMENT OF EMERGENCIES

6.1 Individual safety measures

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

6.2 Environmental precautions

Contamination of water bodies and soil should be avoided.

6.3 Methods for neutralization, disposal and cleaning up

Solid product in the form of bales.

Collect the product and put it in the appropriate containers for disposal or reuse.

6.4 Additional information

None

7 HANDLING AND STORAGE

7.1 Handling

Safe handling recommendations:

Forced draft/ exhaust ventilation system and local ventilation system arrangement. Application of sealed equipment in the production process. All equipment shall be earthed.

Measures to prevent aerosol and dust formation

When using, spraying and dusting do not appear

Incompatible substances

Avoid contact with oxidizers, acids, alkali.

Environment protection measures:

Reduction of rubber losses during transportation and storage, prevent discharges to water basins and sewerage.

Industrial health:

Use Personal Protective Equipment.

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7.2 Safe storage conditions

Precautions against fire and explosion: Avoidance of open flame sources, use a tool which does not cause a spark

Technical measures and storage conditions: 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 areas and containers for storage: Indoor temperature shall not exceed 30 °C.

Further information regarding storage conditions: The period of storage is 1 year maximum.

7.3 Specific end use Information is not available

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Exposure limits Due to physical and chemical properties and low toxicity there is no requirement for establishment of hygienic rating in the air.

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

8.2 Exposure Control at the working area Ensuring that the content of harmful substances is within permissible concentrations by using combined extract and input ventilation in locations of the most contaminant air.

Individual protection means Use protective clothing made of cotton fabric.

Respiratory Tract Protection: Not required at normal conditions.

In case of emergency – filter gas mask, respirators.

Hand Protection: Gloves made of cotton fabric

Eyes Protection: Only in the case of crushing of material in the open systems.

Skin Protection: Use protective clothing made of cotton fabric.

Environmental Exposure Control Concentration of pollutants should be measured in the process of thermal treatment.

Consumer Exposure Control Not used in everyday life.

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9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Physical and Chemical Properties

Appearance	Solid product in the form of bales.
Odor	No odor or slight odor
Odor threshold	Not established
pH	Not applicable
Boiling temperature	Not applicable
Decomposition temperature	above 200 C°
Flash point	Not applicable
Explosion limit / flammability in the air	Not applicable
Self-ignition temperature	above 300 °C
Vapor pressure	Not applicable
Density	0.9 g/cm ³ at 20 °C
Water solubility	not soluble
Solubility in other solvents	Soluble in hexane, toluene, benzene, chloroform, tetrachloride carbon
9.2 Other Information	Not available

10 STABILITY AND REACTIVITY

Contains a stabilizer

10.1 Activity	Oxidized, hydrogenated, halogenated reacted with bromine, thiols, maleic anhydride, chloral, nitroso compounds, carbenes.
10.2 Chemical Stability	Extremely stable under normal conditions
10.3 Possibility of hazardous reactions	Upon contact with an open flame it fires with smoke
10.4 Conditions to avoid	Heating above the melting temperature. Avoid contact with oxidizers, acids, alkali.
10.5 Inappropriate materials	Strong oxidizers, acids, alkalies, combustible and easily flammable substances.
10.6 Hazardous Decomposition Products	Carbon oxides, butadiene

11 TOXICOLOGICAL PROPERTIES

11.1 Information on Toxicological Effects

Oral toxicity at single ingestion	Non toxic
Dermal toxicity at single exposure	Non toxic
Inhalation toxicity at single exposure	Non toxic
Skin irritation	Causes no irritation
Eye irritation	Causes no irritation
Irritation of respiratory tract	Causes no irritation
Sensibilization	None
Toxicity at repeated dosage	None

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Mutagenicity	None
Carcinogenicity	Not established
Toxicity for reproductive function and development	None

12 ECOLOGICAL INFORMATION

12.1 Toxicity:	Rubber bales do not pose a hazard for environment
12.2 Persistence and Degradability:	Transformable in the environment at long-term atmospheric effects (atmospheric precipitation, solar radiation, cold or high temperatures)
12.3 Bioaccumulation Potential	Non cumulative
12.4 Mobility in Soil:	Solid product
12.5 Results of PBT/vPvB assessment:	Fail to meet the requirements.
12.6 Other negative effects:	Not established

13 UTILIZATION AND/OR DISPOSAL OF WASTES (RESIDUES)

13.1 Methods of wastes (residues) disposal

Solid wastes generated in the course of rubber processing are not toxic, they do not require neutralization and are subject to reprocessing. Non-treatable wastes are subject to incineration at specialized landfills.

Waste codes

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

Wooden packaging is subject to incineration or is used as solid fuel after respective processing. Polymer packaging is subject to subsequent reprocessing.

14 SAFETY REQUIREMENTS AT TRANSPORTATION

ADR/ RID	Not classified
IMDG	Not classified
IATA	Not classified
ADN	Not classified
IMO	Not classified
Class	Not classified
Packing group	-
Classification Code	-
Hazard identification number	-
UN-No.	Not classified
Proper Shipping Name	Butadiene-styrene rubber S-SBR 2012 (Каучук бутадиен-стирольный ДССК 2012)

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15 REGULATORY INFORMATION

National regulations:

Regulation (EC) 1907/2006 of the European Parliament and the Council of 18.12.2006 concerning registration, evaluation and authorization of chemicals (REACH), establishing the European Chemical Agency and adding the Regulation 1999/45/EC and cancelling the Resolution (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 OTHER INFORMATION

Source of information: ESIS – European Chemical Substances Information System (European Chemicals Bureau).
Hazardous Substance Data Bank (HSDB).-U.S.National Library of Medicine, 2001-1.
IFA-Database of hazardous substances(GESTIS)
ECHA -European Chemical Agency

Changes:

Version: 3.0 Revision due to the requirements of the EU / 830/2015

National emergency service phones:

Country	Telephone No.
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
Luxemburg	+ 352 24785551, 070 245 245

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Malta	+356 2395 2000, (356) 25454184 / 25454286
Holland	+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
Rumania	+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

Explanation to Abbreviations

CAS no. – registration number for chemicals in Chemical Abstracts Service

EC no. - number of a substance in the list of ECHA

CLP – Classification, Labelling and Packaging

PBT – Persistent, Bioaccumulative, Toxic

vPvB – very Persistent, very Bioaccumulative

LD-50 – average dose of a substance which causes the death of one half of a group of test animals

LC-50 – Lethal Dose concentration

EC-50 - concentration of compound which induces a response equal to half maximal effective concentration

ADR – automobile cargo transportation according to [European Agreement concerning the International Carriage of Dangerous Goods by Road](#)

RID – International Carriage of Dangerous Goods by Rail

ADN – [European Agreement regarding Carriage of Dangerous Goods by Inland Waterways](#)

IMDG – International Maritime Dangerous Goods Code

IATA – [International Air Transport Association](#)

IMO - International Maritime Dangerous Goods Code developed and supported by International Maritime Organization

The information provided in this Safety Data Sheet is correct to the best of our knowledge and regulation in force and designed only as guidance for safe product handling. The product is not designated to be used in purposes different from that of specified in Section 1. The consumer is fully responsible for fulfilling of all the requirements of local rules and laws. The above information does not guarantee product quality.