

Based on Regulation (EC) 1907/2006 of the European Parliament and Council (REACH), ISO 11014:2009, WHMIS-Canada, EU/830/2015

Trade Name: CIS-isoprene synthetic rubber (SKI-3)

Issue Date: 2010-11 Review Date: 2018-06

Revision: 3.4 instead of revision 3.3 dated 2018.05

1 Identification of substance/mixture Identification of company/enterprise

Identification of substance/mixture: Cis-1,4-polyisoprene Rubber

REACH Regustration Number: Isoprene (monomer): 01-2119457891-29-0013

Synonyms: Cis-1,4-polyisoprene

Molecular formula: $(C_5H_8)_n$

Application: Tire and technical rubber industry

Producer/importer/distributor:

Supplier/producerPJSC «Nizhnekamskneftekhim»AddressRF, Tatarstan, 423574, Nizhnekamsk

Telephone/fax +7(8555)377445

Person in charge for MSDS: E-mail: nknh@nknh.ru

ShuvalovaOV@nknh.ru, BayazitovaLH@nknh.ru

Special representative:

Name of company Oy Nizhex Scandinavia Ltd

Person in charge Jari Taipale

Address Wavulinintie, 10

HELSINKI 00210

Finland

Telephone/fax +35 896824700

E-mail: jari.taipale@nizhex.fi

Emergency telephone number:

- **product recipient country**To be specified in each country by the Consumer

Please refer to Section 16 hereof

- **country of origin** +7 (8555) 37-72-07, (8555) 37-78-30,

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

8.00 - 17.00 in workdays

2 Hazards Identification

2.1. Hazard Description:

This product **is not hazardous** as defined in Regulation No.1272/2008 (CLP). The substance is nonhazardous, nontoxic. No adverse human health effects at room temperature.

Information on special hazards for humans and environment:

Physical and chemical negative impact: None

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Negative impact on environment: Poses no hazard for environment.

2.2 Marking elements: Not applied

2.3. Other hazards: Transforms in the environment at long weather impact (atmospheric precipitation, solar radiation, cold, high temperatures).

3 Composition / Information on components

3.1 Substance Information:

Chemical name/ Synonyms	EC No.	REAC H No.	Index No.	CAS No.	Content (%)	Classification according to Directive (EC) № 1272/2008 [CLP]	
						Hazard	Hazard Designations
						class /	
						Hazard	
						Category	
Polymer 2-methylbutadi-	None	Not	None	9003-	>99,6	Not classifie	d
1,3-ene		subject		31-0			
		to					
		registrat					
		ion					
Stabilizer:							
1,4-Benzenediamine, N1-	None	Not	None	82209-	<0,3	Not classifie	d
(2-ethylhexyl)-N4-phenyl-		subject		88-9			
(C20H28N2) Novantox 8		to					
PFDA		registrat					
		ion					
Other admixtures:							
Calcium stearate	216-	Not	None	1592-	<0,06	Not classifie	d
	472-8	subject		23-0			
		to					
		registrat					
		ion					

4 First aid measures

4.1 Description of first aid measures

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

been defined and is unlikely.

In case of inhalation: No hazard at ambient temperature

In case of skin No hazard at ambient temperature. Wash with water and soap. In case of

contact: contact with hot product, wash immediatelly with plenty of cold water.

Apply clean gauze or cotton bandage.

In case of eye contact: Wash with plenty of water until the product is removed from the eyes

In case of ingestion: No hazard. When small amount of rubber crumb is swallowed, first air is

not normally required.

4.2. Most important symptoms and effects, both acute and delayed

No influence at ambient temperature.



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Skin: Contact with hot product causes flushed skin, pain, burns.

<u>Eyes</u>: For open systems where contact is most likely, the particles of the product can damage the eye surface and cause mechanical irritation. Thermal degradation products cause eye pain, lacrimation, redness, irritation, burning.

<u>Inhalation</u>: Rubber does not contain volatile fractions, does not emit harmful substances when stored. The symptoms such as irritation of the upper respiratory tract, suffocation, cough, lacrimation, nausea, drowsiness, headache, loss of consciousness are observed due to influence of thermal degradation products only.

<u>Ingestion</u>: Poisoning symptoms were not determined. If swallowed may cause irritation of the gastrointestinal tract, like any foreign object.

4.3 Prescription for immediate medical attention and special treatment

To visit a doctor.

5 Fire fighting measures

5.1 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, water vapor, fire-extinguishing foams, inert gases, sand, asbestos cloth.

5.2 Prohibited fireextinguishing means 5.3 Special hazards of the product exposure, hazardous products of combustion and thermal decomposition

Prohibited fire extinguishing means are not established.

Carbon oxides and carbon dioxides. Heated product decomposes and emits carbon oxide (CAS No. 124-38-9), isoprene emission is possible as well (CAS No. 78-79-5).

Carbon oxides reduce oxygen (O_2) content in the air; they may have a toxic effect on the cells causing the cell respiration disturbance.

Isoprene – is toxic in high concentrations, causes mucous membrane irritation in low concentrations, causes functional deviance in the central nervous system.

5.4 Personal protection and fire-extinguishing equipment

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

5.5 General recommendations

Remove personnel not participating in fire-fighting from the site of the fire.

6 Measures for prevention and management of emergencies

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



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6.2 Environmental

Contamination of water bodies and soil should be avoided.

protection measures

6.3 Methods of

Solid product in the form of bales.

neutralization, removal and cleaning

Collect the product and put it in the appropriate containers for disposal

or reuse.

6.4 Supplementary recommendation

None

7 Handling and storage

7.1 Handling

Advices on safe Arrangement of supply-and-exhaust ventilation system and local handling:

ventilation. Use of pressure tight equipment for production. Equipment

grounding is mandatory.

Measures to prevent aerosol and dust generation

No generation of aerosols and dust at handling.

Incompatible substances

Do not store with oxidizers, acids and caustics.

Measures required to protect the environment: Minimization of rubber losses during transportation and storage,

prevention of discharges into surface waters and sewage.

Industrial hygiene

Use of personal protection equipment.

7.2. Safe storage conditions:

Precautions against fire and explosion:

Open flame sources are not allowed, application of intrinsically safe

tools only

Technical measures and storage conditions:

The product shall be stored indoors at the ambient temperature, away from open fire sources, direct sunlight and atmospheric precipitations,

away from heat sources.

Rubber packed in polypropylene textile bags shall be stored in stacks

with max. hieght 1.2m.

Rubber packed in pallet boxes shall be stored in stacks, not more than

four pallet boxes stacked.

Packaging materials:

- polystyrene film

- polyethylene film;

- polypropylene textile bags - all-purpose plastic container;

- Wooden pallet box.

Requirements for storage rooms and vessels:

Room temperature shall not exceed 30°C.



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Further information on

Storage time – max. 2 year

storage conditions:

7.3. Specific end use of

N/A

the product

8 Exposure control and personal protection

8.1 Exposure limits: MAC in Due to physical and chemical properties and low toxicity there are

working zone/SRLS in the no hygienic regulations for the air exposure limits

working zone air

working zone air

8.2 Occupational exposure

Ensuring that the content of hazardous substances is within

permissible concentration limits by using supply-and-exhaust ventilation system in of the most contaminant air locations.

Personal protection Use protective clothing made of cotton fabric

equipment

controls

Respiratory protection: Not required under normal operating conditions.

In case of emergency – use filter gas-mask, breating masks.

Hand protection: Gloves made of cotton fabric

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

Body protection Protective clothing made of cotton fabric

Environmental exposure Concentration of pollutants should be measured in the process of

controls thermal treatment.

Consumer exposure control: Not used in household activity.

9 Physical and chemical properties

Appearance Solid product bale of grey color.

Odor No odor or slight odor

Odor threshold Not established PH Not applicable

Boiling temperature

Rot applicable
Glass transition temperature

Not applicable
Minus 71°C

Flash point 275 deg. C (open crucible)

Ignition temperature 300 °C

Auto-ignition temperature 575 °C

Vapor pressure

Density

Not applicable

0.91 g/cm3 at 20 °C

Solubility in water Insoluble

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

tetrachloride

Appearance Solid product bale of grey color.



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10 Stability and reactivity

Contains a stabilizer

10.1 Reactivity Oxidized, hydrogenated, halogenated cyclized, isomerized

undergoes oxidative degradation

10.2 Chemical stability Exclusively stable under normal conditions

10.3 Possibility of hazardous Upon contact with open fire it burns with smoking flame

reactions

10.4 Conditions to avoid Heating above melting point. Exclude the contact with oxidizers,

acids and caustics

10.5 Materials to avoid

Strong oxidizers, acids, caustics and flammable substances

Carbon oxides, isoprene 10.6 Hazardous decomposition products

11 **Toxicological properties**

Oral toxicity at single ingestion Non toxic Skin toxicity at single exposure Non toxic 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 None Toxicity at repeated dosage None Mutagenicity None

Carcinogenicity Not established

Toxicity for reproductive None

function and development

12 Environmental impact

Rubber bales do not pose a hazard for environment 12.1 Toxicity:

12.2 Persistence and Transforms in the environment at prolonged weather impact

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

12.3 Bio-accumulative Noncumulative

potential:

12.4 Soil mobility Solid product



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12.5 Results of PBT/vPvB

Do not meet criteria

check:

12.6 Other adverse effects: Not established

13 Utilization and/or disposal of wastes (remains)

13.1 Methods of disposal of wastes (remains)

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 the specialized landfill.

Code of wastes

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

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

14 Safety requirements during transportation

ADR/ RID

IMDG

IATA

Not classified

IATA

Not classified

ADN

Not classified

IMO

Not classified

Not classified

Not classified

Not classified

Not classified

Packing group Classification Code Hazard identification number -

UN-No. Not classified

Proper Shipping Name Isoprene rubber SKI-3 (Каучук СКИ-3)

15 Regulatory information

National legislative documents:

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.



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16 Supplementary information

Data sources: ESIS – European Chemical Substances Information System (European

Chemicals Bureau).

Hazardous Substance Data Bank (HSDB).-U.S. National Library of Medicine,

2001-1.

IFA – Data base on data basis on hazardous substances (GESTIS)

ECHA – European Chemicals Agency

Changes:

Version: 3.1 Revision due to the requirements of the EU / 830/2015 Directive

3.2 Section 3, composition

3.3 Updating

3.4 Section 7, Shelf Life

National emergency telephone numbers:

Country	Phone number			
Austria	+43 1 406 43 43 Poison Control Centre			
Belgium	070 245 245 Centre antipoisons			
Bulgaria	+35 929 154 233 Национален токсикологичен			
	информационен център			
Croatia	(+385 1) 23-48-342 Poison Control centre			
Cyprus	+35 7 22405611 Department of Labour Inspection			
Czech Republic	+420 224 919 293, +420 224 915 402 Toxikologické			
	informační středisko			
Denmark	82121212 (round-the-clock) AKUTHJAELP VED			
	FORGIFTNING			
Estonia	16662 (круглосуточно), (+372) 626 93 90 Poisoning			
	Information Centre			
Finland	09 471977, 094711 (round-the-clock) Poison			
	Information Centre			
France	+33 0145425959 (round-the-clock) ORFILA (INRS)			
Germany	+ 49 231 9071 2971 BAuA Information Centre			
Greece	No information			
Hungary	(1-800)201-199 (round-the-clock) Az Egészségügyi			
	Toxikológiai Tájékoztató			
Iceland	+354 543 2222 Eitrunarmiðstöð			
Ireland	01 8092566, 01 8379964 National Poisons			
	Information Centre			
Italy	+39 06 59 94 37 33 Telephone (for technical and			
	scientific issues)			
Latvia	+371 67042473 National emergency telephone			
Liechtenstein	No information			
Lithuania	+370 52 20 5236, +370687 53378 Neatideliotina			
	informacija apsinuodijus			



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Luxembourg	070 245 245 Centre antipoisons
Malta	21243314 – Florianna, 22563000 – Rabat, 22695701/2 –
	Mosta.
Netherlands	030-2748888 Just for the information of the medical staff
	in cases of acute intoxication
Norway	22 59 13 00 (round-the-clock) Giftinformasjonen
Poland	No information
Portugal	808 250 143
Romania	No information
Slovakia	No information
Slovenia	No information
Spain	+ 34 91 562 04 20
Sweden	112 – ask poisions
United Kingdom	No information

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

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 handling of 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 is not the guarantee of the product quality.