

SECTION 1: Identification of the substance / mixture and of the company / undertaking

1.1. Product identifier

Trade names:	Cis-isoprene synthetic rubber SKI-3S
Substance name:	Poly (2-methyl-1,3-butadiene) Cis-1,4-polyisoprene Polyisoprene, cis
Molecular formula:	[C ₅ H ₈] _n
EC Name:	Absent
EC No.: Not assigned.	
CAS No.:	9003-31-0
Registration No: (assigned under Article 20(3) of Regulation (EC) No. 1907/2006)	Rubbers (polymers) are not subject to registration in accordance with provisions of Article 2 (9) of REACH Regulation. Monomer substance (isoprene CAS No. 78-79-5, EC X2201-143-3) is registered in accordance with provisions of Article 6 (3) of Regulation (EC) N21907/2006.

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses:	Rubber is used in the production of tyres, mechanical rubber goods (moulded and not moulded parts, rubber shoes). Cis-isoprene synthetic rubber is used instead of natural one.
Uses advised against:	Not intended for the production of mechanical rubber goods used in food and medicine.
Exposure scenario(s):	Not required for rubbers (polymers).

1.3. Details of the supplier of the SDS

Non-EU manufacturer:	Open Joint-Stock Company "Sintez-Kauchuk" (JSC « Sintez-Kauchuk ») 14, Technicheskaya ulitsa, Sterlitamak The Republic of Baslikortostan, 453110 The Russian Federation Contact person: Vildan Rysaev Tel. / Fax: +7 (812) 495 97 38
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Safety Data Sheet

In accordance to Regulation (EC) No. 1907/2006 (as amended by Commission Regulation (EU) No. 453/2010)

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1.4. Emergency telephone number

Non-EU manufacturer: +7 812 495 97 38
Opening hours: 8:30AM - 5:30PM (GMT+5)
Lunch break: 12:45 - 13:33 (GMT +5)
Day-off: Saturday, Sunday
European Country Emergency Number: Please, refer to Annex I of this eSDS for the list of Emergency telephones of European Poisons Centers.

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture -

Classification according to the Regulation (EC) No. 1272/2008:

Classification under Regulation Not required
(EC) No. 1272/2008:

2.2. Label elements

Labeling according to CLP Not required
Regulation (EC) 1272/2008:

2.3. Other hazards

Human Health Hazards: Under normal temperature and pressure the product represents no direct human health hazard. Under high temperatures it is exposed to destruction with the emission of isoprene vapors and its compounds. For additional information refer to sections 7, 8, 9 of the present SDS.

SECTION 3: Composition / information on ingredients

3.1. Substances

Main constituents:	CAS No.	Chemical name	% (mass)	EC No.
	9003-31-0	Poly (2-methyl-1,3-butadiene)	>98	Not assigned

SECTION 4: First aid measures

4.1. Description of first aid measures

If on skin: Rinse skin with water and soap. If necessary get medical attention.
If in eyes: Produces mechanical irritation. Remove contact lenses. Rinse with plenty of water for several minutes. If necessary get medical attention.

If inhaled: Under normal conditions volatile components are not emitted.

If ingested: Give plenty to drink. Get medical attention

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

Symptoms: Absent

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

Acute exposure: Absent. If necessary for medical treatment refer to medical professionals.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Water.
Mechanical foam.
Carbon dioxide and powder.
Asbestos cloth.
Sand.

Unsuitable extinguishing media: Not regulated

5.2. Special hazards arising from the substance or mixture

Unusual fire hazards Combustible solid. Burns with the emission of heavy black fume and toxic gases (carbon oxides, soot). When burned the product softens and spreads increasing the fire area.

5.3. Advice for firefighters

Special fire fighting procedures: Enclose the fire area. Extinguish from the maximal distance. Extinguish gases and vapors produced during burning with water spray. After putting out the fire cool the product with water to prevent self-ignition.

Personal protection: Apply special protective clothes, shoes, personal eye protection. For respiratory protection use self-contained breathing apparatus with forced air supply.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Precautionary measures: Special precautions are not required. In case of accidental release of the product comply with fire safety measures.

6.1.2. For emergency responders

Similarly to sub-paragraph 6.1.1. of the SDS.

6.2. Environmental precautions

Accidental Releases: No direct environmental hazard.
Special precautions are not required.

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Revision date: 01.06.20 15**6.3. Methods and material for containment and cleaning up**

The following steps should be undertaken:

Collect into containers for reuse or disposal.
Do not throw into refuse collection places.

6.4. Reference to other sections

Other information

For information on protective equipment refer to section 8 of the present SDS.

Refer to section 13 of the present SDS for further information on disposal conditions.

SECTION 7: Handling and storage -**7.1. Precautions for safe handling**

Measures to prevent fire:

Take fire precautions.
Avoid contacts with open fire and sparks, also heating up above self-ignition temperature.
Use earthed equipment to avoid static electricity.

Measures to prevent aerosol and dust formation:

Use suction-and-exhaust ventilation.

Handling:

Do not eat, drink and smoke during the work.
Wash hands before eating.
At the end of the work take shower and change your clothes.

7.2. Conditions for safe storage, including any incompatibilities

Storage:

Store in closed package, in covered cool, well-ventilated storehouses.
Avoid direct sunlight and atmospheric precipitation.
Maximal amount of containers in a stack - no more than three.
The height of packing in paper bags - no more than 1,2 m.
When stockpiling, keep breaks between rows.

Substances, incompatible in joint storage:

Strong oxidizers, combustible and self-inflammable substances, concentrated acids, alkali and alkali metals.

7.3. Specific end use(s)

Not required for rubbers (polymers).

SECTION 8: Exposure controls / personal protection**8.1. Control parameters**

Occupational Exposure Limit values:

Harmonized occupational exposure limit values have not been established in the EU and at the international level.

The product by its structure is analogous to the natural rubber and is a high molecule polymer isoprene with linear structure of the molecular chain that contains no free monomer.

Technological additives and mixtures are present in the product as substances bound into or onto matrix. Nevertheless under industrial use conditions at the stages of high temperature processing low molecule polymer compounds of isoprene can be emitted. The intensity of emission depends on the processing conditions (temperature regimes, mechanical mixing processes).

International values of safe exposure level for the most similar structural analogue - monomer isoprene are summarized below to make safe exposure assessment of low molecule compounds of isoprene.

Substance	Control parameter	Standard	Data source	Comment
Isoprene	TWA (8-h)	2 ppm [5.58 Mg/M3]	US, AIHA	No harmonized occupational exposure limit values are established for this substance in EU. The stated safe exposure limit values are not legally binding and referred here for recommendation purpose only. Consult the current national/regional/local legislation to specify occupational Exposure Limit.

8.2. Exposure controls

8.2.1 Engineering controls and good work practices:

Engineering controls and good work practices:

Technical measures in the work practice shall provide constant and efficient disposal of the substances emitted during thermoprocessing and compliance of the working place with the requirements established by the national/regional/local standards.

Premises designated for work with the product shall be supplied with the supply-exhaust ventilation corresponding to the industrial work conditions. Depending on the technological equipment peculiarities of the stages of thermoprocessing local exhaust ventilation may be required.

- Periodic environmental control at workplaces shall be carried out in accordance with the current national/regional/local legislation.

8.2.2 Individual protective measures such as personal protective equipment:

Personal protective equipment:	The choice of personal protective equipment shall be based on the conditions of product processing and common environmental parameters in the working area. Personal protective equipment shall comply with national/regional/local legislation requirements.
Respiratory Protection:	When handling the product constant use of respiratory protection is usually not required It is recommended to use respiratory equipment as respiratory protection.
Skin protection:	Cotton clothing, closed shoes, solid gloves.
Eye and Face Protection:	Protective glasses/face masks.
Hygiene Facilities:	Do not eat, drink and smoke during work. The working place should be kept in adequate sanitary conditions. Wash hands and face before eating. Take a shower after work.

8.2.3 Environmental Exposure controls:

Emission sources:	Ventilation releases.
Summary of RMM relevant to environment:	Periodic control for emission sources shall be carried out in accordance with the current national/regional/local legislation.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Appearance:	At normal conditions solid homogeneous substance from white to beige color in the form of rectangularly shaped briquette.
Odour:	Low odour.
Odour threshold:	No data are available.
pH:	Not applicable.
Melting point/freezing point:	Glass - transition temperature is minus 70°C Melting point is not specifically defined.
Initial boiling point and boiling Flash point:	Not applicable. 275°C
Evaporation rate:	Not applicable.
Auto-ignition temperature:	340°C
Decomposition temperature:	No data are available.
Viscosity:	No data are available.
Flammability:	Not flammable.
Upper/lower flammability or explosive limits:	Not applicable.

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Vapour pressure:	Not applicable.
Vapour density:	Not applicable.
Relative density:	0,9-0,92 g/cm ³
Partition coefficient: n-octanol/water:	Not applicable.
Explosive properties:	Not explosive.
Oxidising properties:	Not oxidizing.
9.2. Other information	
Henry's law constant (HLC):	Not applicable.
Conversion factors:	Not applicable.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity: Under normal conditions reactivity is not observed

10.2. Chemical stability

Stability: Stable under normal temperature and pressure and if storage, handling conditions are complied with.

10.3. Possibility of hazardous reactions

Special precautions: Not applicable.

10.4. Conditions to avoid

Conditions contributing to instability: Incompatible substances, high temperatures, open flame, direct sunlight.

10.5. Incompatible materials

Incompatibilities: Strong oxidizers, combustible and self-inflammable substances, concentrated acids and alkalis, alkali metals.

10.6. Hazardous decomposition products

Hazardous decomposition products: Products of combustion.

SECTION 11: Toxicological information

General characteristic of the product:	Complete toxicity testing of the product has not been made. The cases of acute poisoning during industrial use are not described.
	Under normal temperature and pressure the product does not affect the human health.
Acute toxicity:	No data are available.
Skin corrosion/irritation:	No data are available.

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Serious eye damage/irritation: No data are available.
Respiratory irritation: No data are available.
Respiratory or skin sensitization: No data are available.
Germ cell mutagenicity: No data are available.
Carcinogenicity: No data are available.
Reproductive toxicity: No data are available.
STOT-single & repeated exposure: No data are available.

SECTION 12: Ecological information_-

General characteristic of the product: The special assessment of the potential negative influence of the product on the environment has not been made.
Under normal conditions rubber is expected to represent no direct environmental hazard.

12.1. Toxicity

No data are available.

12.2. Persistence and degradability

No data are available.

12.3. Bioaccumulative potential

No data are available.

12.4. Mobility in soil

No data are available.

12.5. Results of PBT and vPvB assessment

No data are available.

12.6. Other adverse effects

No data are available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal: Product disposal shall occur only in compliance with current national/regional/local legislation requirements.

Disposal of containers: Refer to national / regional / local legislation in force on package disposal conditions.

SECTION 14: Transport information

14.1. UN number

UN No: Not assigned.

14.2. UN proper shipping name

UN Proper Shipping Name: Not applicable.

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14.3. Transport hazard class(es)

UN Class: Not assigned.

14.4. Packing group

UN Packing Group: Not applicable.

14.5. Environmental hazards

Environmental Hazards: Not classified.

14.6. Special precautions for users

Notes: A number of restrictions may apply to materials subject to local/national/regional classifications requirements. Please refer to the appropriate regulation for specific details regarding classification requirements and restrictions.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No data are available

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Export and Import of Dangerous Chemicals (Regulation (EC) No. 689/2008) Information: Poly (2-methyl-1,3-butadiene) is not listed in the Annex I of Regulation (EC) No. 689/2008.

Regulation REACH (EC) No. 1907/2006: Polymers are not subject to registration in accordance with provisions of Article 2(9) of REACH Regulation. Monomer substance (isoprene CAS No. 78-79-5, EC N 20 1-143-3) is registered in accordance with provisions of Article 6 (3) REACH Regulation.

15.2. Chemical safety assessment

GSA: Chemical Safety Assessment is not required for polymers in accordance with provisions of REACH Regulation. Monomer (isoprene): Chemical Safety Assessment has been carried out for this chemical in accordance with provisions of REACH Regulation

SECTION 16: Other information**16.1 Additional identifiers of article**

Additional Cas No.: 104389-31-3
Note: Additional CAS number is designated for polyisoprene rubbers with longer polymer chain and, in particular, cis-polyisoprene.

16.2. Abbreviations and acronyms:

CAS No Chemical Abstracts Service number
CLP Classification Labelling Packaging Regulation; Regulation (EC) No. 1272/2008
EC European Community

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EC	European Commission
EEC EC-Number	European Economic Community
EINECS	EINECS and ELINCS Number (see also EINECS and ELINCS)
ELINCS	European Inventory of Existing Commercial Substances
SDS	European List of notified Chemical Substances
GHS	Safety Data Sheet
REACH	Globally Harmonized System
TWA	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No. 1907/2006
	Time-Weighted average

16.3. Document History:

VERSION	COMMENTS	
Version 1.00	First redaction	01.01.20 11
Version 1.01	In clause 1.3 have been changed the contact details of the manufacturer in connection with contact person change.	10.09.20 13
Version 1.02	In clauses 1.1, 3.1 have been changed CAS number from CAS #104389-31-3 to CAS #9003-31-0, because: - CAS #9003-31-0 is main for polyisoprene, - CAS N2 104389-31-3 is additional and designated for polyisoprene rubbers with longer polymer chain and, in particular, cis-polyisoprene.	22.01.20 14
Version 1.03		
Version 1.04	In clause 1.3 have been changed the contact details of the	25.03.20 14
Version 2.00	In clause 1.3 have been changed the contact details of the.	01.08.20 14
	Undated sections 2.1 and 2.2	01.06.20 15

16.4. Disclaimer:

The information contained herein is accurate and is based on the present state of our knowledge. Although, we make no representations that information contained herein is entirely accurate and complete. We do not warranty that these are the only hazards that exist because chemical substances may be of unknown hazards and shall be used with caution. We assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).

Annex I

IPCS directory of poison centres: European Region

Info from the International Programme on Chemical Safety (IPCS) publicly available at

<http://www.who.int/ipcs/poisons/centre/directory/euro/en/> (Data obtained on January 22nd 2015)

- Austria**, Emergency telephone number: +431406 43 43, Vergiftungsinformationszentrale (Poisons Information Centre), Allgemeines Krankenhaus, Waehring Geurtel 18-20, Vienna
- Belgium**, Emergency telephone number: +32 70 245 245, Centre Anti-Poisons/Antigifcentrum, Hôpital Militaire Reine Astrid, Rue Bruyn, Brussels
- Bulgaria**, Emergency telephone number: +359 2 9154 378, +359 887 435 325, National Toxicological Information Centre, National Clinical Toxicology Centre, Emergency Medical Institute "Pirogov", 21 Tottleben Boulevard, Sofia
- Croatia**, Emergency telephone number: +3 5 8 1 234 8342, Poisons Control Centre, Ksaverska Cesta 2, Zagreb
- Czech Republic**, Emergency telephone number: +420 22 49 192 93, Poisons Information Centre, 2 Ksaverska Rd, Prague
- Denmark**, Emergency telephone number: +45 82 12 12 12, Poison Information Centre, Bispebjerg Hospital, Bispebjerg Bakke 23, 60, 1, Copenhagen
- Finland**, Emergency telephone number: +358 9 471977, Finnish Poison Information Centre, Tukholmankatu 17, Helsinki
- France**, Emergency telephone number: +33 140 05 48 48, Centre Antipoison et de Toxicovigilance de Paris, Hôpital Fernand Widal, 200 rue du Faubourg Saint-Denis, Paris
- Germany**, Emergency telephone number: +4930 19240, Clinical Toxicology and Berlin, Institute of Toxicology Poison Information Centre, Oranienburger Strasse 285, 13437 Berlin
- Greece**, Emergency telephone number: +30 2107 793777, Poisons Information Centre, Children's Hospital "Aglaiia Kyriakou", Athens
- Hungary**, Emergency telephone number: +36 8020 1199, Health Toxicological Information Service, H- 1096 Budapest, Nagyvárud tdr 2, Budapest
- Iceland**, Emergency telephone number: +354 543 2222, Iceland Poisons Information Centre, Landspítali University Hospital, Fossvogi, Reykjavik
- Ireland (Republic of)**, Emergency telephone number: +353 1 8379964, +353 1 809 2166, Poisons Information Centre of Ireland, Beaumont Hospital, P.O. BOX 1297, Beaumont Road, Dublin
- Israel**, Emergency telephone number: +972 4 854 1900, Israel Poisons Information Centre, Rambam Health Care Campus, 6 Ha'Aliya Street, Haifa
- Italy**, Emergency telephone number: +39 06 305 4343, Poison Centre - Catholic University School of Medicine Largo Agostino Gemelli 8, Rome
- Estonia**, Emergency telephone number: 16662, Estonian Poison Information Centre, Gonsiori 29, Tallinn
- Lithuania**, Emergency telephone number: +3705 2 3620 52, +370 687 533 78, Lithuania Poisons Control and Information Bureau, Siltnamiu Str 29, Vilnius
- Netherlands**, Emergency telephone number: +3130 274 88 88, National Poisons Information Centre, The Netherlands, University Medical Centre Utrecht, Postbus 85500, Utrecht
- Norway**, Emergency telephone number: +4722 591300, Department for Poisons Information, Norwegian Directorate of Health, St. Olavs plass, Oslo
- Poland**, Emergency telephone number: +48 22 619 66 54, Warsaw Poison Information and Control Centre, Al. Solidarnosci 67, Warszawa
- Portugal**, Emergency telephone number: 808 250 143, CLAY - Centro de InformacOes Antivenenos, Rua Almirante Barroso, 36, Lisbon
- Romania**, Emergency telephone number: +402 212 106 282, TOXAPEL - Paediatric Poison Centre, Emergency Clinical Hospital for Children Grigore Alexandrescu, Boulevard Iancu de Hunedoara 30-32, Bucharest
- Slovakia**, Emergency telephone number: +4212 54 774 166, National Toxicological Information Centre, University Hospital Bratislava, Limbovã 5, 833 05 Bratislava
- Slovenia**, Emergency telephone number: + 386 41 635 500, Poison Control Centre Ljubljana, University Medical Centre Ljubljana, Zaloska cesta 7, Ljubljana
- Spain**, Emergency telephone number: +34 156 20 420, Instituto Nacional de Toxicologia, Jose Echegaray n° 4, Las Rozas, Madrid
- Sweden**, Emergency telephone number: +46 8 33 1231, Giftinformationscentralen (Swedish Poisons Information Centre), Karolinska Hospital, Stockholm
- Switzerland**, Emergency telephone number: +4144 2515151, Swiss Toxicological Information Centre, Freiestrasse 16, CH-8028, Zurich
- United Kingdom**, Emergency telephone number: 844 892 0111, Regional Medicines and Poisons Information Centre NI, Pharmacy Department, Royal Hospital Suite, Grosvenor Road, Belfast

NOTE: The list of emergency telephone numbers is provided here for reference only. It may not be complete or correct. Please, consult with your local/national competent authorities for the emergency number in your country.

End of the document.