



JSC "Sintez-Kauchuk"

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

Safety Data Sheet**Rubber SKI-3**

CAS No. 9003-31-0

Version: 3.00
Replaces version: 2.00
Revision date: 19.01.2017**SECTION 1: Identification of the substance / mixture and of the company / undertaking****1.1. Product identifier**

Trade names:	Cis-isoprene synthetic rubber SKI-3
Substance name:	Cis-1,4-polyisoprene Polyisoprene, cis
Molecular formula:	[C ₅ H ₈] _n
EC Name:	Absent
Index No.: (Annex VI to Regulation (EC) No. 1272 / 2008)	Not assigned.
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 № 201-143-3) is registered in accordance with provisions of Article 6 (3) of Regulation (EC) №1907/2006.

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 (conveyor belt, hoses, moulded and not moulded parts, rubber shoes, hoses, electroinsulated rubber). 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

Company Contact Details:	Open Joint-Stock Company «Sintez-Kauchuk» (JSC «Sintez-Kauchuk») 14, Technicheskaya ulitsa, Sterlitamak The Republic of Bashkortostan, 453110 The Russian Federation Contact person: Vildan Rysaev Tel. / Fax : +7 (3473) 20-75-17 E-mail: export@uktau.ru
Only Representative:	UAB "CHEMIJOS INDUSTRIJA" Turgaus str. 2-4, LT-91246, Klaipėda, Lithuania Contact person: Rolandas Povilaitis Tel.: +370 65 066719 Fax: +370 46 368165 E -mail: rolandas@ichemicals.eu



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Importer:	iChemicals LLP Minijos Str. 49, LT-91208, Klaipeda, Lithuania Contact person: Vitaly Rudshstein Tel.: +370 46 368244 Fax: +370 46 368165 E-mail: info@ichemicals.eu			
1.4. Emergency telephone number				
Manufacturer Company:	+007 3473 20-75-17 Opening hours: 8:30AM – 5:30PM (GMT+5) Lunch break: 12:45 – 13:33 (GMT +5) Day-off: Saturday, Sunday			
Only Representative:	+370 65 066719			
European Country Emergency Number:	Please, refer to Annex I of this SDS for the list of Emergency telephones of European Poisons Centres.			
SECTION 2: Hazards identification				
2.1. Classification of the substance or mixture				
Classification under Regulation (EC) No. 1272/2008:	Not required			
2.2. Label elements				
Labelling according to CLP Regulation (EC) 1272/2008:	Not required			
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	Cis-1,4-polyisoprene	> 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.			



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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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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	



<p>Occupational Exposure Limit values:</p>	<p>Harmonized occupational exposure limit values have not been established in the EU and at the international level.</p> <p>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.</p> <p>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).</p> <p>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.</p> <table border="1" data-bbox="663 958 1517 1458"> <thead> <tr> <th>Substance</th> <th>Control parameter</th> <th>Standard</th> <th>Data source</th> <th>Comment</th> </tr> </thead> <tbody> <tr> <td>Isoprene</td> <td>TWA (8-h)</td> <td>2 ppm [5.58 mg/m³]</td> <td>US, AIHA</td> <td>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.</td> </tr> </tbody> </table>	Substance	Control parameter	Standard	Data source	Comment	Isoprene	TWA (8-h)	2 ppm [5.58 mg/m ³]	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.
Substance	Control parameter	Standard	Data source	Comment							
Isoprene	TWA (8-h)	2 ppm [5.58 mg/m ³]	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.							
<p>8.2. Exposure controls</p>											
<p>8.2.1 Engineering controls and good work practices:</p>											
<p>Engineering controls and good work practices:</p>	<p>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.</p> <p>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.</p> <p>- Periodic environmental control at workplaces shall be carried out in accordance with the current national/regional/local legislation.</p>										



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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:	Under normal conditions it is solid homogeneous substance from light-grey to black colour in the form of a square brick.
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 range:	Not applicable.
Flash point:	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.
Serious eye damage/irritation:	No data are available.



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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:	Cis-1,4-polyisoprene 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 № 201-143-3) is registered in accordance with provisions of Article 6 (3) REACH Regulation.
15.2. Chemical safety assessment	
CSA:	Chemical Safety Assessment is not required for polymers in accordance with provisions of REACH Regulation. <u>Monomer (isoprene):</u> 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



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

16.3. Document History:

VERSION	COMMENTS	DATE
Version 1.00	First redaction	01.01.2011
Version 1.01	In clause 1.3 have been changed the contact details of the manufacturer in connection with contact person change.	10.09.2013
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 № 104389-31-3 is additional and designated for polyisoprene rubbers with longer polymer chain and, in particular, cis-polyisoprene.	22.01.2014
Version 1.03	In clause 1.3 have been changed the contact details of the importer.	25.03.2014
Version 1.04	In clause 1.3 have been changed the contact details of the Only Representative.	01.08.2014
Version 2.00	Updated sections 2.1 and 2.2	01.06.2015
Version 3.00	Updated sections 1.1, 3.1 and 15.1	19.01.2017

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).



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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 22 nd , 2015)
Austria , Emergency telephone number: +431 406 43 43, Vergiftungsinformationszentrale (Poisons Information Centre), Allgemeines Krankenhaus, Waehringer 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 Totleben Boulevard, Sofia
Croatia , Emergency telephone number: +358 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 9 471 977, Finnish Poison Information Centre, Tukholmankatu 17, Helsinki
France , Emergency telephone number: +33 1 40 05 48 48, Centre Antipoison et de Toxicovigilance de Paris, Hôpital Fernand Widal, 200 rue du Faubourg Saint-Denis, Paris
Germany , Emergency telephone number: +49 30 19240, Clinical Toxicology and Berlin, Institute of Toxicology Poison Information Centre, Oranienburger Strasse 285, 13437 Berlin
Greece , Emergency telephone number: +30 21 07 79 3777, Poisons Information Centre, Children's Hospital "Aglaia. Kyriakou", Athens
Hungary , Emergency telephone number: +36 80 20 11 99, Health Toxicological Information Service, H-1096 Budapest, Nagyvárad tér 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: +370 5 2 36 20 52, +370 687 533 78, Lithuania Poisons Control and Information Bureau, Siltnamiu Str 29, Vilnius
Netherlands , Emergency telephone number: +31 30 274 88 88, National Poisons Information Centre, The Netherlands, University Medical Centre Utrecht, Postbus 85500, Utrecht
Norway , Emergency telephone number: +47 22 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, CIAV - Centro de Informações 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 Ianca de Hunedoara 30-32, Bucharest
Slovakia , Emergency telephone number: +421 2 54 774 166, National Toxicological Information Centre, University Hospital Bratislava, Limbová 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 Toxicología, Jose Echegaray nº 4, Las Rozas, Madrid
Sweden , Emergency telephone number: +46 8 33 12 31, Giftinformationscentralen (Swedish Poisons Information Centre), Karolinska Hospital, Stockholm
Switzerland , Emergency telephone number: +41 44 251 51 51, 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.