TOGLIATTIKAUCHUK LLC

SAFETY DATA SHEET
According to 1907/2006/EC, article 31 (REACH)

ISOPRENE RUBBER (IR)
GRADES SKI-3, SKI-3S

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

1.1. Product identifier

<table>
<thead>
<tr>
<th>Name of Substance:</th>
<th>Polyisoprene</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of IUPAC</td>
<td>Poly-2-methyl-1,3-butadiene</td>
</tr>
<tr>
<td>Synonyms</td>
<td>cis-1,4-polysoprene</td>
</tr>
<tr>
<td>PRODUCT NAME, GRADES</td>
<td>SKI-3, SKI-3S</td>
</tr>
<tr>
<td>TRADE NAMES:</td>
<td>Isoprene Rubber (IR)</td>
</tr>
<tr>
<td>Registration</td>
<td></td>
</tr>
<tr>
<td># for isoprene</td>
<td>01-2119457891-29-0001</td>
</tr>
<tr>
<td>(CAS #78-79-5; EC #201-143-3)</td>
<td></td>
</tr>
</tbody>
</table>

1.2. Relevant identified uses of the substance
Most common technical function of Polyisoprene: tyre production, technical rubber parts (profiles, hoses, shoe soles, belt production, technical rubber goods), rubber compound, medical production.

1.3. Details of the supplier of the safety data sheet

ONLY REPRESENTATIVE:

Company name: Gazprom Marketing and Trading France
Address: 68 avenue des Champs-Elysées, Paris, 75008, France
Contact phone: +33 1 42 99 73 50
Fax: +33 1 42 99 73 99
Email address: yury.severinchik@gazprom-mt.com

SUPPLIERS

Company name: Togliattikauchuk LLC *
Address: Novozavodskaya str. 8, 445007, Togliatti*, Samara Region, Russian Federation
Phone: +7 (8482) 29-91-51; 23-11-04; 29-32-69
Fax: +7 (8482) 22-14-41; 70-15-18
E-mail Address: officetk@tltk.ru; office@tltk.ru
Emergency phone: +7 (8482) 29-91-51 (round the clock)

*Other valid translation of the city name is Tolyatti, therefore the plant name "Togliattikauchuk" is also valid.
SECTION 2: HAZARDS IDENTIFICATION

Classification:

ANNEX I OF DIRECTIVE 67/548/EEC:
Physical/Chemical Hazards:
none

Health Hazards:
none

Environmental hazards:
none

EU CLP 2008:
Physical / Chemical Hazards:
none

Health Hazards:
none

Environmental hazards:
none

SPECIFIC HAZARD
No significant health hazard in normal industrial use conditions. Contact with melted/heated product may cause thermal burns. Processing vapours, which can irritate eyes and respiratory tract, may form when product is heated to high temperatures. Combustible solid. Products of thermal decomposition – toxic.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Grade SKI-3 is a synthetic rubber, consisting of at least 98% polymerised isoprene. It contains 0.2-0.3% antioxidant and 0.6-1.4% lubricant (calciumdistearate, EC 216-472-8, CAS 1592-23-0). Grade SKI-3S is also a synthetic rubber, consisting of at least 98% polymerised isoprene. It contains 0.5-1.3% antioxidant and 0.6-1.4% lubricant (calciumdistearate, EC 216-472-8, CAS 1592-23-0).

<table>
<thead>
<tr>
<th>Component</th>
<th>Conc. %</th>
<th>CAS / EC #</th>
<th>Classification 67/548/EEC and EU CLP 2008</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polysisoprene</td>
<td>≥98</td>
<td>9003-31-0/ none</td>
<td>none</td>
</tr>
</tbody>
</table>

The product does not contain impurities or additives that could affect product’s labelling and classification according to 67/548/EEC and EU CLP 2008.

SECTION 4: FIRST-AID MEASURES
INHALATION
Move an exposed person to fresh air at once. Keep warm and at rest. If there is respiratory distress give oxygen. If respiration stops or shows signs of failing, apply artificial respiration. Get medical attention.

INGESTION
Wash out mouth with water and give plenty of water to drink, provided person is conscious. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If vomiting occurs naturally, have the exposed person lean forward. Get medical aid.

SKIN CONTACT
Remove contaminated clothing and wash skin with plenty of running water, under a shower if affected area is large enough to warrant this. Get medical attention.

EYE CONTACT
Rinse immediately eye with plenty of low pressure water for at least 15 minutes. Remove contact lenses. Get medical attention.

SECTION 5: FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA
The substance is flammable. Use foam, dry chemical, carbon dioxide, or water spray.

SPECIAL FIRE FIGHTING PROCEDURES
Keep away from sources of ignition - no smoking.

UNUSUAL FIRE & EXPLOSION HAZARDS
None

SPECIFIC HAZARDS
Combustion generates irritating and toxic fumes.

PROTECTIVE MEASURES IN FIRE
Wear full protective clothing and MSHA/NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS
See section 8.

ENVIRONMENTAL PRECAUTIONS
Take precautionary measures against discharges into the environment.

SPILL CLEAN UP METHODS
Sweep spilled substance into containers. Avoid generating dusty conditions and provide ventilation. All equipment must be grounded.
SECTION 7: HANDLING AND STORAGE

USAGE PRECAUTION
Wash thoroughly after handling. Avoid contact with eyes and skin. Do not ingest or inhale. Minimise dust generation and accumulation. Remove all sources of ignition. All equipment must be grounded.

STORAGE PRECAUTIONS
Store in a cool, dry, well-ventilated area away from direct sunlight and incompatible substances in a closed container. Keep away from source of open fire.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS
None listed

PROTECTIVE EQUIPMENT
Protective gloves, safety goggles and protective clothing.

RESPIRATORY EQUIPMENT
Wear positive pressure self-contained breathing apparatus if warranted by workplace conditions.

HAND PROTECTION
Wear approved protective gloves.

EYE PROTECTION
Wear approved safety goggles.

HYGIENE MEASURES
Wash at the end of each work shift and before eating, drinking, smoking or using the toilet.

SKIN PROTECTION
Wear protective clothing.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE thermoplastic solid (pellets or slabs)

COLOUR white to yellow (for SKI-3S), dark grey (for SKI-3)

ODOUR peculiar

DECOMPOSITION TEMPERATURE 290 °C

AUTOIGNITION TEMPERATURE 325 °C

SPECIFIC GRAVITY 0.90-0.92

MELTING POINT 28-40 °C
**SECTION 10: STABILITY AND REACTIVITY**

**STABILITY**
Stable under normal temperatures and pressures.

**MATERIALS TO AVOID**
Strong acids, strong oxidising agents, organic solvents.

**CONDITIONS TO AVOID**
Incompatible materials, dust generation.

**HAZARDOUS DECOMPOSITION PRODUCTS**
Carbon monoxide, carbon dioxide.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**INHALATION**
Polyisoprene has no local irritating effect on the gastrointestinal tract when inhaled, conjunctiva, skin-resorptive and sensitizing effect.

**INGESTION**
Not applicable.

**SKIN CONTACT**
There is no irritant effect on skin.

**EYE CONTACT**
There is no irritant effect on eyes.

**SECTION 12: ECOLOGICAL INFORMATION**

**ECOTOXICITY**
The product is poorly biodegradable but does not pose a hazard to the environment.

**WATER HAZARD CLASSIFICATION**
According to the German VwVwS: WGK- 0 (not classified)

**SECTION 13: DISPOSAL CONSIDERATIONS**

**GENERAL INFORMATION**
Place into a suitable closed container for disposal.

**DISPOSAL METHODS**
Dispose of in accordance with local and national regulations.
SECTION 14: TRANSPORT INFORMATION

GENERAL
The product is not covered by international regulations on the transport of dangerous goods under UN DOT.

SECTION 15: REGULATORY INFORMATION

LABELLING none
CONTAINS Polyisoprene (≥98%)
RISK PHRASES none
SAFETY PHRASES S 16 Keep away from sources of ignition - no smoking
S 43.2 In case of fire, use water or powder mixtures

UK REGULATORY REFERENCES

ENVIRONMENTAL LISTING
Control of Pollution Act 1974.

EU DIRECTIVES
System of specific information relating to Dangerous Preparations. 2001/58/EC. Dangerous Preparations Directive 1999/45/EC.

STATUTORY INSTRUMENTS

APPROVED CODE OF PRACTICE

GUIDANCE NOTES
Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG(108).

NATIONAL REGULATIONS
Workplace Exposure Limits 2005 (EH40).
The Carriage of Dangerous Goods and use of transportable pressure equipment regulations 2004. Control of Substances hazardous to health regulations 2002 (as amended).

NATIONAL REGULATIONS (GERMANY)
Major Accident Hazard Legislation 82/501/EWG.
SECTION 16: OTHER INFORMATION

ISSUED BY: HS&E Manager
RISK PHRASES IN FULL: none

DISCLAIMER

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