

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Name of the substance	Polypropylene (PP) homopolymer
Trade name of the substance	Polypropylene Buplene® homopolymer grades 6131,6231,6331,6431,6531,6631, 6531 BOPP; 6631 BOPP
Identification number	9003-07-0
Registration number	
Synonyms	None.
Issue date	14-September-2011
Version number	02
Revision date	24-April-2013
Supersedes date	14-September-2011

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

Identified uses	Packing for food, film material: cast film, mono- and biaxially oriented film, goods for: house wear, automotive and electric industries, construction products, pipes, profiles, filaments, woven and nonwoven textile, sanitary – hygienic product and for medical purposes, for single and firm packings including for hot filling and sterilization.
Uses advised against	-

1.3. Details of the supplier of the safety data sheet**Supplier**

Company name	LUKOIL Neftohim Burgas AD
Address	Bourgas 8104, Bulgaria
Telephone	+359 5511 5654
Fax	+359 5511 5555
e-mail	SDS@neftochim.bg
Contact person	REACH@neftochim.bg
Emergency number in the EU	112

1.4. Emergency telephone number +1-760-476-3961 (333368)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Directive 67/548/EEC or 1999/45/EC as amended**

This substance does not meet the criteria for classification according to Directive 67/548/EEC as amended.

Classification according to Regulation (EC) No 1272/2008 as amended

This substance does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

Hazard summary

Physical hazards	Not classified for physical hazards.
Health hazards	Not classified for health hazards.
Environmental hazards	Not classified for hazards to the environment.
Specific hazards	Under normal conditions of intended use, this material is not expected to be an inhalation hazard. Elevated temperatures or mechanical action may form dust and fumes which may be irritating to the eye, mucous membranes and respiratory tract. Danger of poisoning from products of destruction (decomposition) i.e. when heating polyethylene during its processing. Hot or molten material may produce thermal burns.
Main symptoms	Dust may irritate throat and respiratory system and cause coughing.

2.2. Label elements**Label according to Regulation (EC) No. 1272/2008 as amended**

Contains:	Polypropylene Homopolymer
Identification number	9003-07-0
Hazard pictograms	None.
Signal word	None.

Hazard statements	The substance does not meet the criteria for classification.
Precautionary statements	
Prevention	Observe good industrial hygiene practices.
Response	Get medical attention/advice if you feel unwell.
Storage	Store away from incompatible materials.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
Supplemental label information	Not applicable.
2.3. Other hazards	None known.

SECTION 3: Composition/information on ingredients

3.1. Substances

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Polypropylene Homopolymer	≥98	9003-07-0	-	-	
Classification:	DSD:				-
	CLP:				-

Composition comments	This product contains additives: antioxidants and thermostabilizers in concentrations , acidic neutralizers – no more 2 %. All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. Exempted from registration of the regulation 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
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SECTION 4: First aid measures

General information	Thermal burns: Flush with plenty of water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital.
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4.1. Description of first aid measures

Inhalation	Remove victim to fresh air. Get medical attention if symptoms persist.
Skin contact	No specific first aid measures noted. Wash skin with soap and water. In case of contact with molten product, cool rapidly with water and seek immediate medical attention. Do not attempt to remove molten product from skin because skin will tear easily.
Eye contact	Do not rub eyes. Flush eyes with water as a precaution. If molten material contacts the eye, immediately flush with plenty of water for at least 15 minutes. Get medical attention.
Ingestion	Rinse mouth thoroughly with water. Get medical attention if any discomfort occurs.

4.2. Most important symptoms and effects, both acute and delayed	Contact with dust: May cause irritation through mechanical abrasion. Exposure to hot material may cause thermal burns.
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4.3. Indication of any immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically.
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SECTION 5: Firefighting measures

General fire hazards	Will burn if strongly heated and when involved in fire.
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5.1. Extinguishing media

Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.
Unsuitable extinguishing media	None known.

5.2. Special hazards arising from the substance or mixture	High concentrations of dust may form explosive mixture with air. During fire, gases hazardous to health may be formed.
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5.3. Advice for firefighters

Special protective equipment for firefighters	Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Special fire fighting procedures	Evacuate area and fight fire from a safe distance. Stay upwind. Move container from fire area if it can be done without risk. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Avoid inhalation of dust and contact with skin and eyes. Wear appropriate personal protective equipment.

For emergency responders Avoid formation of dust. Use personal protection recommended in section 8 of the SDS.

6.2. Environmental precautions Environmental manager must be informed of all major spillages.

6.3. Methods and material for containment and cleaning up Avoid dust formation. Collect dust using a vacuum cleaner equipped with HEPA filter. If not possible, gently moisten dust with water fog before it is collected with shovel, broom or the like. Flush area with water.

6.4. Reference to other sections For personal protection, see section 8 of the SDS.
For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling Avoid contact with molten material. Avoid inhalation of fumes from molten product. Use with adequate ventilation. Avoid generation and spreading of dust. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities Keep away from sources of ignition - No smoking. Store in a cool, dry place out of direct sunlight. Ground container and transfer equipment to eliminate static electric sparks. Store away from incompatible materials.

7.3. Specific end use(s) Packing for food, film material: cast film, mono- and biaxially oriented film, goods for: house wear, automotive and electric industries, construction products, pipes, profiles, filaments, woven and nonwoven textile, sanitary – hygienic product and for medical purposes, for single and firm packings including for hot filling and sterilization.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits No exposure limits noted for ingredient(s).

Biological limit values No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures Not available.

Derived no-effect level (DNEL) Not available.

Predicted no effect concentrations (PNECs) Not available.

8.2. Exposure controls

Appropriate engineering controls Provide adequate general ventilation. Provide local ventilation if dust is generated.

Individual protection measures, such as personal protective equipment

General information Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Eye/face protection Normal eye protection practices should be used. If dusty conditions exist, chemical goggles are recommended.

Skin protection

- Hand protection No protection is ordinarily required under normal conditions of use. It is a good industrial hygiene practice to minimise skin contact.

- Other No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

Respiratory protection No protection is ordinarily required under normal conditions of use and with adequate ventilation. In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter (type P2).

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Hygiene measures Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Environmental exposure controls Environmental manager must be informed of all major spillages.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Granules.

Physical state Solid.

Form	Granules.
Colour	Colorless to matt white.
Odour	Odourless.
Odour threshold	Not applicable.
pH	Not applicable.
Melting point/freezing point	160 - 175 °C (320 - 347 °F)
Initial boiling point and boiling range	Not available.
Flash point	- Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not applicable.
Flammability limit - upper (%)	Not applicable.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	0.899 - 0.906
Solubility(ies)	Insoluble in water.
Partition coefficient (n-octanol/water)	Not applicable.
Auto-ignition temperature	> 380 °C (> 716 °F)
Decomposition temperature	Not available.
Viscosity	Not applicable.
Explosive properties	Not available.
Oxidizing properties	Not available.
9.2. Other information	
Bulk density	> 450 kg/m ³
Molecular formula	(C ₃ -H ₆)X-
VOC (Weight %)	Not applicable.

SECTION 10: Stability and reactivity

10.1. Reactivity	The product is stable and non reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	This product is stable under expected conditions of use.
10.3. Possibility of hazardous reactions	Hazardous polymerisation does not occur.
10.4. Conditions to avoid	Avoid exposure to high temperatures or direct sunlight. Contact with incompatible materials.
10.5. Incompatible materials	Oxidizing agents. Halogens. Strong acids.
10.6. Hazardous decomposition products	Thermal decomposition or combustion may liberate toxic and/or corrosive gases or fumes.

SECTION 11: Toxicological information

General information	Occupational exposure to the substance or mixture may cause adverse effects.
Information on likely routes of exposure	
Ingestion	Under normal conditions of intended use, this material does not pose a risk to health.
Inhalation	Not relevant at normal room temperatures. When heated, irritating vapours may be formed.
Skin contact	Skin irritation is not anticipated when used normally.
Eye contact	Elevated temperatures or mechanical action may form dust and fumes which may be irritating to the eye.
Symptoms	Hot material will produce thermal burns.

11.1. Information on toxicological effects

Acute toxicity	Under normal conditions of intended use, this material does not pose a risk to health. Danger of poisoning from products of destruction (decomposition) i.e. when heating polyethylene during its processing.
Skin corrosion/irritation	Not classified.
Serious eye damage/eye irritation	Elevated temperatures or mechanical action may form dust and fumes which may be irritating to the eye.
Respiratory sensitisation	Not classified.
Skin sensitisation	Not a skin sensitiser.
Germ cell mutagenicity	Not available.
Carcinogenicity	Not classified.

IARC Monographs. Overall Evaluation of Carcinogenicity

Polypropylene Homopolymer (CAS 9003-07-0) 3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity	Not classified.
Specific target organ toxicity - single exposure	None known.
Specific target organ toxicity - repeated exposure	None known.
Aspiration hazard	Not an aspiration hazard.
Mixture versus substance information	Not applicable.
Other information	Contact with hot material can cause thermal burns which may result in permanent damage or blindness.

SECTION 12: Ecological information

12.1. Toxicity	No toxicity data noted for the ingredient(s).
12.2. Persistence and degradability	No data available.
12.3. Bioaccumulative potential	No data available.
Partition coefficient n-octanol/water (log Kow)	Not applicable.
Bioconcentration factor (BCF)	Not available.
12.4. Mobility in soil	Not considered mobile.
Mobility in general	The product is insoluble in water.
12.5. Results of PBT and vPvB assessment	No data available.
12.6. Other adverse effects	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste	Dispose of in accordance with local regulations.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.
EU waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

SECTION 14: Transport information

ADR

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

ADN

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

This substance/mixture is not intended to be transported in bulk.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I

Not listed.

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not regulated.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

Not regulated.

Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances

Not regulated.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Not listed.

Directive 94/33/EC on the protection of young people at work

Not listed.

Other regulations

This substance is not classified according to Directive 67/548/EEC.

National regulations

Follow national regulation for work with chemical agents.

15.2. Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

List of abbreviations

DNEL: Derived No-Effect Level.
PNEC: Predicted No-Effect Concentration.
PBT: Persistent, bioaccumulative and toxic.
vPvB: Very Persistent and very Bioaccumulative.
N/A: Not applicable.
CLP: Regulation No. 1272/2008.
DSD: Directive 67/548/EEC.

References

HSDB® - Hazardous Substances Data Bank
Registry of Toxic Effects of Chemical Substances (RTECS)

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any statements or R-phrases and H-statements under Sections 2 to 15

None.

Training information

Follow training instructions when handling this material.

Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available at the date of revision and exclusively refer to the product in its as-delivered condition. The information and recommendations are offered for the user's consideration and examination. The logo and the name "LUKOIL oil company" may include anyone or more of LUKOIL or any affiliates in which they directly or indirectly hold any interest.