

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

Name of the substance	Polyvinylchloride (PVC) Suspension
Trade name of the substance	Polyvinylchloride Grades KSR-57, KSR-60, KSR-67, KSF-65, KSF-70, KSF-75
Identification number	9002-86-2 (CAS number)
Registration number	-
Synonyms	PVC * Polyethylene chloride * Vinyl polychlorine
Issue date	08-August-2011
Version number	02
Revision date	05-October-2017
Supersedes date	08-August-2011

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

Identified uses	Used as the insulation on electric wires and cables, production of sheets, profiles, tubes, films, the production of molded parts produced by injection molding, the manufacture of PVC footwear, medical products.
Uses advised against	None known.

1.3. Details of the supplier of the safety data sheet

Supplier/OR	LUKOIL Neftohim Burgas AD
Address	Burgas 8104, Bulgaria
Telephone	+35955115654
Fax	+35955115555
E-mail	SDS@neftochim.bg
Manufacturer	KARPATNAFTOCHIM LTD
Address	Promyslova str., 4., 77306 Kalusch, Iwano-Frankiwsk region, Ukraine
Fax	+38 034 726 64 60, +38 034 726 04 25
E-mail	mail@knh.com.ua
Website	www.knh.com.ua

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

General in EU 112 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****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 Exposure to powder or dusts may be irritating to eyes, nose and throat. Danger of poisoning from products of destruction (decomposition) i.e. when heating polyethylene during its processing. Hot or molten material may produce thermal burns.

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

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	
P314	Get medical advice/attention 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 None.

2.3. Other hazards Not a PBT or vPvB substance or mixture.

SECTION 3: Composition/information on ingredients

3.1. Substances

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Polyvinyl chloride	100	9002-86-2	-	-	
Classification:	-				

Composition comments 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).

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.

4.1. Description of first aid measures

Inhalation Remove victim to fresh air. Get medical attention if symptoms persist.

Skin contact 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.

4.3. Indication of any immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically.

SECTION 5: Firefighting measures

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

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.

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)	Used as a feed stock for the processing and production of different materials through extrusion, casting and molding methods.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

UK. EH40 Workplace Exposure Limits (WELs)

Material	Type	Value	Form
Polyvinyl chloride (CAS 9002-86-2)	TWA	4 mg/m ³	Respirable dust.
		10 mg/m ³	Inhalable dust.

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

Recommended monitoring procedures Follow standard monitoring procedures.

Derived no effect levels (DNELs) Not available.

Predicted no effect concentrations (PNECs) Not available.

8.2. Exposure controls

Appropriate engineering controls Observe occupational exposure limits and minimise the risk of inhalation of dust. Provide adequate general ventilation. Provide local ventilation if dust is generated. Use explosion-proof electrical equipment if airborne dust levels are high.

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

Physical state	Solid.
Form	Powder.
Colour	Colorless to white.

Odour Odourless.

Odour threshold Not available.

pH Not available.

Melting point/freezing point 165 - 170 °C (329 - 338 °F)

Initial boiling point and boiling range Decomposes before boiling.

Flash point	391.0 °C (735.8 °F)
Evaporation rate	Not available.
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 applicable.
Relative density	Not available.
Solubility(ies)	Insoluble in water.
Partition coefficient (n-octanol/water)	Not applicable.
Auto-ignition temperature	390 °C (734 °F) (aerogelat)
Decomposition temperature	> 120 °C (> 248 °F)
Viscosity	Not applicable.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
9.2. Other information	
Bulk density	430 - 630 g/dm ³
Density	1350.00 - 1460.00 kg/m ³
Molecular formula	(C ₂ -H ₃ -Cl) _X
Thermal hazards	
Relative self-ignition temperature	454 - 495 °C (849.2 - 923 °F) (aerogelat)

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	May polymerize at low temperatures. At normal temperatures may dehalogenate, with the formation of hydrogen chloride.
10.4. Conditions to avoid	Avoid exposure to high temperatures or direct sunlight. Contact with incompatible materials.
10.5. Incompatible materials	Strong oxidising agents. Strong acids. Halogens.
10.6. Hazardous decomposition products	Thermal decomposition or combustion may liberate toxic and/or corrosive gases or fumes. Hydrogen chloride. Carbon oxides. Aromatic hydrocarbons. Aliphatic hydrocarbons. Polychlorinated dibenzo-p-dioxins. Phosgene. Chlorine.

SECTION 11: Toxicological information

General information	Occupational exposure to the substance or mixture may cause adverse effects.
Information on likely routes of exposure	
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	May cause eye irritation on direct contact.
Ingestion	Under normal conditions of intended use, this material does not pose a risk to health.
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	Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	May cause eye irritation on direct contact.
Respiratory sensitisation	Based on available data, the classification criteria are not met.
Skin sensitisation	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.

IARC Monographs. Overall Evaluation of Carcinogenicity

Polyvinyl chloride (CAS 9002-86-2)

3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity	Based on available data, the classification criteria are not met.
Specific target organ toxicity - single exposure	Based on available data, the classification criteria are not met.
Specific target organ toxicity - repeated exposure	Based on available data, the classification criteria are not met.
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	Not a PBT or vPvB substance or mixture.
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

14.1. - 14.6.: Not regulated as dangerous goods.

RID

14.1. - 14.6.: Not regulated as dangerous goods.

ADN

14.1. - 14.6.: Not regulated as dangerous goods.

IATA

14.1. - 14.6.: Not regulated as dangerous goods.

IMDG

14.1. - 14.6.: Not regulated as dangerous goods.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.

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 and II, as amended

Not listed.

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

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended
Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended
Not listed.

Regulation (EU) No. 649/2012 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, as amended
Polyvinyl chloride (CAS 9002-86-2)

Regulation (EC) No. 1907/2006, REACH Article 59(10) 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, as amended.
Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended
Not listed.

Other regulations

This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended. This substance does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

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

PBT: Persistent, bioaccumulative and toxic.
vPvB: Very Persistent and very Bioaccumulative.

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 H-statements not written out in full under Sections 2 to 15

None.

This SDS contains revisions in the following section(s):

1, 2, 3, 7, 8, 9, 11, 12, 14, 15, 16.

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 Neftohim Burgas AD or LUKOIL or any affiliates in which they directly or indirectly hold any interest.