

# SAFETY DATA SHEET

# Section 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

Name of the substance

Polyvinylchloride (PVC) Suspension

Trade name of the

Polyvinylchloride Grades KSR-57, KSR-60, KSR-67, KSF-65, KSF-70, KSF-75

substance

Identification No.

9002-86-2

Registration number

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Synonyms

PVC \* Polyethylene chloride \* Vinyl polychlorine

Date of first issue

08-August-2011

Version number

01

Revision date

Supersedes date

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## 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

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## Details of the supplier of the safety data sheet

Supplier/OR

LUKOIL Neftochim Bourgas AD

Address

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Telephone

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SDS@neftochim.bg

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Emergency telephone

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+1-760-476-3961 (333368)

Manufacturer

"Karpatnaftochim"Ltd.

Address

Promyslova str., 4., 77306 Kalusch, Iwano-Frankiwsk region, Ukraine

# Section 2: Hazards identification

# 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

Dusts or powder may irritate the respiratory tract, skin and eyes. 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.

Label elements

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

Contains:

Polyvinyl chloride

Identification No.

9002-86-2

Hazard statements

The substance does not meet the criteria for classification.

Precautionary statements

Observe good industrial hygiene practices. Prevention

Get medical advice/attention if you feel unwell. Response

Store away from incompatible materials Storage

Dispose of waste and residues in accordance with local authority requirements. Disposal

Supplemental label information

None

Other hazards None known.

# Section 3: Composition/information on ingredients

Substance

General information

CAS-No. / EC No. REACH Registration No. Notes % Chemical name

# 9002-86-2 Polyvinyl chloride 100

Classification:

DSD: -

CLP:

#: This substance has workplace exposure limit(s).

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.

Description of first aid measures

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

Wash skin with soap and water. In case of contact with molten product, cool rapidly with water Skin contact

and seek immediate medical attention. Do not attempt to remove molten product from skin

because skin will tear easily.

Do not rub eyes. Flush eyes with water as a precaution. If molten material contacts the eye, Eye contact

immediately flush with plenty of water for at least 15 minutes. Get medical attention.

Rinse mouth thoroughly with water. Get medical attention if any discomfort occurs. Ingestion

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.

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.

Extinguishing media

Suitable extinguishing

media

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog

Unsuitable extinguishing

media

Special hazards arising from

None known.

the substance or mixture

High concentrations of dust may form explosive mixture with air. During fire, gases hazardous to health may be formed.

Advice for firefighters

Special protective equipment for firefighters Selection of respiratory protection for fire fighting: 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 firefighting 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

#### 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 **Environmental precautions** 

Avoid formation of dust. Use personal protection recommended in Section 8 of the SDS.

Methods and material for

Environmental manager must be informed of all major spillages.

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.

Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.

#### Section 7: Handling and storage

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.

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

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

#### Control parameters

#### Occupational exposure limits

UK. EH40 Workplace Exposure Limits (WELs)

Material	Туре	Value	Form	
Polyvinyl chloride (9002-86-2)	TWA	10 mg/m3	Inhalable dust.	
		4 mg/m3	Respirable dust.	

Recommended monitoring

procedures

Follow standard monitoring procedures

DNEL Not available **PNEC** 

Not available.

**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).

Hygiene measures

Wear appropriate thermal protective clothing, when necessary.

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

Thermal hazards

controls

Environmental manager must be informed of all major spillages.

## Section 9: Physical and chemical properties

Information on basic physical and chemical properties

**Appearance** 

Powder.

Physical state

Solid

Form

Powder.

Colour

Colorless to white.

Odour

Odourless

Odour threshold

Not available.

Melting point/freezing

Not applicable.

point

165 - 170 °C (329 - 338 °F)

Boiling point, initial boiling point, and boiling range

Decomposes before boiling.

Flash point

391 °C (735.8 °F)

Auto-ignition temperature

390 °C (734 °F) (aerogelat)

Flammability (solid, gas) Flammability limit - lower Not available.

Not applicable.

(%)

Flammability limit - upper

(%)

Not applicable.

Oxidising properties **Explosive properties**  Not applicable. Not applicable.

**Explosive limit** Vapour pressure Not applicable. Not applicable.

Vapour density Evaporation rate Not applicable. Not applicable.

Relative density

Not available.

Density Solubility (water) 1350 - 1460 kg/m3 Insoluble in water.

Partition coefficient

Not applicable.

(n-octanol/water)

> 120 °C (> 248 °F)

Decomposition temperature

430 - 630 g/dm3

**Bulk density** Viscosity

Not applicable.

VOC (Weight%)

Not applicable.

Percent volatile

Not available.

Other data

Molecular formula

(C2-H3-CI)X

Relative self-ignition

temperature

454 - 495 °C (849.2 - 923 °F) (aerogelat)

Other information

No relevant additional information available.

# Section 10: Stability and reactivity

Reactivity

The product is stable and non reactive under normal conditions of use, storage and transport.

Chemical stability

This product is stable under expected conditions of use.

Possibility of hazardous reactions

May polymerize at low temperatures. At normal temperatures may dehalogenate, with the

formation of hydrogen chloride.

Conditions to avoid

Avoid exposure to high temperatures or direct sunlight. Contact with incompatible materials.

Incompatible materials

Strong oxidising agents. Strong acids. Halogens.

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

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.

Eve contact

May cause eye irritation on direct contact.

**Symptoms** 

Hot material will produce thermal burns.

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

May cause eye irritation on direct contact.

Respiratory sensitisation

Not available.

Skin sensitisation

Not a skin sensitiser.

Germ cell mutagenicity

Not available.

Carcinogenicity

Not classified.

IARC Monographs. Overall Evaluation of Carcinogenicity

Polyvinyl chloride (CAS 9002-86-2)

3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity

Not classified.

Specific target organ

Not available.

toxicity - single exposure

Specific target organ toxicity - repeated

Not available.

exposure

Not an aspiration hazard.

Mixture versus substance

information

Not applicable.

Other information

Aspiration hazard

Contact with hot material can cause thermal burns which may result in permanent damage or

## Section 12: Ecological information

**Toxicity** 

No toxicity data noted for the ingredient(s).

Persistence and

No data available.

degradability

Bioaccumulative potential

No data available

Mobility

The product is insoluble in water.

Environmental fate -

Partition coefficient

Not applicable.

Mobility in soil

Not considered mobile No data available.

Results of PBT and vPvB assessment

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

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

The product is not covered by international regulation on the transport of dangerous goods.

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

No information available.

## Section 15: Regulatory information

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

**EU Regulations** 

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex I

Not listed

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex II

Not listed

Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I

Not listed

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

Not listed.

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

Not listed.

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

Not listed

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

Not listed

Directive 96/61/EC concerning integrated pollution prevention and control (IPPC): Article 15, European Pollution Emission Registery (EPER)

Not listed

Regulation (EC) No. 1907/2006, REACH Article 59(1). Candidate List

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.

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-phrases 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 Neftochim

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