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

1.1. Product Identifier

Product Name: **Parafina PZ 45**
 Synonyms: -
 CAS No.: Not applicable - mixture
 WE No.: Not applicable - mixture
 Index No.: Not applicable - mixture
 Registration No.: Not applicable - mixture

1.2. Relevant uses of the substance/mixture and uses advised against

Manufacture of mixture, use of mixture as intermediate, distribution of mixture, formulation and (re)packing of substance and mixtures, uses in coatings, use as release agents and binders, use in agrochemicals, use in road and construction applications, rubber production and processing, use in polymer processing, use as a fuel, lubricants, use in Laboratories, explosive manufacture and use, use as functional fluids, other consumer fluids.

1.3. Details of the supplier of the SAFETY DATA SHEET

Producer: **ORLEN Południe S.A.**
 Address: Fabryczna 22, 32-540 Trzebinia
 Tel/Fax: +48 24 201 00 00 / +48 24 367 74 14
 E-Mail: reach.poludnie@orlen.pl – Technology and Development Department

1.4. Emergency telephone number:

National Fire Brigade: 998 or 112 (mobile phone)
 Ambulance: 999 or 112 (mobile phone)

SECTION 2. HAZARDS IDENTIFICATION

2.1. CLASSIFICATION OF SUBSTANCE OR MIXTURE

Classification	according to Regulation (EC) No 1272/2008:	
Hazards		
due to the physicochemical properties:	-	
for human:	-	
for environment:	-	

2.2. Label elements

No Label elements according to Regulation (EC) No 1272/2008.
 Pictogram: -
 Signal word: -
 Hazard statements: -
 Precautionary statements: -

2.3. Other hazards

Material does not meet the criteria for PBT or vPvB in accordance with REACH Annex XIII.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS**3.1. Substance**

Not applicable – mixture.

3.2. Mixture

Parafina PZ 45 is a mixture of solid hydrocarbons.

All substances contained in the product Parafina PZ 45 are registered in accordance with REACH Regulation:

Substances are not classified according to CLP Regulation (notes N and L).

These substances are not classified as dangerous according to Directive 67/548 / EEC. The N and L note was used.

These substances are not hazardous according to the CLP regulation. The N and L note was used.

Based on the N and L notes, the substances are not classified as carcinogenic because the full refining process is known. DMSO extract content <3% (according to IP 346).

SECTION 4. FIRST AID MEASURES**4.1. Description of first aid measures****Inhalation:**

Remove from further exposure. Get medical assistance if needed. For those providing assistance, avoid exposure to yourself or others.

Skin contact:

Wash contact areas with soap and water. If burned by contact with hot material, molten material adhering to skin should be cooled as quickly as possible with water, and see a physician for removal of adhering material and treatment of burn.

Eye contact:

Flush thoroughly with water for at least 15 minutes. Get medical assistance if needed.

Ingestion:

First aid is normally not required. Seek medical attention if discomfort occurs.

4.2. Most important symptoms and effects, both acute and delayed

During inhalation of large quantities of vapor-heated product may have symptoms of irritation of the upper respiratory tract.

4.3. Indication of any immediate medical attention and special treatment needed

The injured person needs fresh air and tranquility.

SECTION 5. FIRE FIGHTING MEASURES**5.1. Extinguishing media**

Suitable extinguishing media: Use water fog, foam, dry chemical or carbon dioxide (CO₂) to extinguish flames.

Unsuitable extinguishing media: Straight streams of water.

5.2. Special hazards arising from the substance or mixture

Flash Point	min. 200°C
Self-ignition Temperature	min. 250°C
Temperature class	T3
Fire hazard class	III

Hazardous Combustion Products: Smoke, Sulphur oxides, Incomplete combustion products, Wax fumes, Oxides of carbon

5.3. Advice for fire fighters

Fire Fighting Instructions: Evacuate area. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to

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protect personnel.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precaution, protective equipment and emergency procedures

NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

PROTECTIVE MEASURES

Avoid contact with skin and eyes. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Wash hands thoroughly after handling. Do not use open fire and do not smoke cigarettes.

6.2. Environmental precautions

Large Spills: Dyke far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

6.3. Methods and material for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

6.4. References to other sections

See section: 8 and 13 in this MSDS.

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling

All fire-safety measures must be followed while handling the product. Strictly no smoking or naked flames. In addition, it is necessary to avoid any inhalation of vapours or aerosol, contamination of skin and/or eyes. If handling of heavy containers is necessary, use suitable handling equipment and avoid of any possibility of slipping. Do not eat, drink and smoke at work. Store the product away from foodstuffs, drinks and fodder.

7.2. Conditions for safe storage, including any incompatibilities

The container choice, for example storage vessel, may effect static accumulation and dissipation. Do not store in open or unlabelled containers.

Storage Temperature if liquid: <90°C

Storage Temperature if state: <40°C

7.3. Specific end uses

Manufacture of substances, use of substance as intermediate, distribution of substance, formulation and (re)packing of substance and mixtures, uses in coatings, use as release agents and binders, use in agrochemicals, use in road and construction applications, rubber production and processing, use in polymer processing, use as a fuel, lubricants, use in Laboratories, explosive manufacture and use, use as functional fluids, other consumer fluids.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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8.1. Control Parameters

8.2.1 Exposure control in the workplace.

While using the product, wash hands after each work connected with the mixture. While using the mixture, do not eat, do not drink and do not smoke.

The personal protective equipment must fulfil requirements stipulated in the Regulation of the Minister of Economy of 28 December 2005 (OJ No 259, item 2173) and Directive 89/686/EC (as amended). The employer is obliged to provide personal protective equipment appropriate to the activities performed and fulfilling all the qualitative requirements, as well as to maintain and clean it.

Protection of the airways Avoid contact with vapours, in the case of normal use exposure by the inhalation route is unlikely. Use mechanical ventilation at work stations and in closed rooms and buildings.

Hand protection Protective gloves resistant to oil, resistant to temperature. It is advisable to change gloves on a regular basis and to replace them immediately if any signs of their wear, damage (rupture, piercing) or changes in appearance (colour, elasticity, shape) occur.

Selection of the class of resistance to penetration depends on the time of exposure to the factor and it should be selected in accordance with standard EN 374. Thickness of gloves' layer is specified by a manufacturer based on the penetration exposure class.

Eye protection Safety goggles, protective masks.

Skin protection Protective clothes resistant to oil

8.2.2 Environmental exposure control

Prevent the product from getting into the soil, ground water and drainage system. In case of a leakage or, in the case of the solid product, in case of spilling, remove the product which got into the environment on an ongoing basis.

The mixture does not meet the classification criteria for the mixtures hazardous to the environment consistent with Directive 1999/45/EEC and with Regulation (EC) No 1272/2008 (CLP).

8.2. Exposure controls

8.2.1 Exposure control in the workplace.

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. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

Respiratory protection Avoid contact with vapours. In normal handling temperatures risk of inhalation is very small. Use mechanical ventilation at workplaces.

Hand protection Protective gloves oil-resistant, temperature resistant. Selection of the class of resistance to penetration depends on the time of exposure to the agent and should be selected in accordance with EN 374.

Eye protection If contact with material may occur, safety glasses and face shield are recommended.

Skin protection Protective clothing, oil-resistant

8.2.2 Environmental controls

Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.

The substance is not classified according to Regulation (WE) nr 1272/2008 (CLP).

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

a) Appearance

: Below congealing point – solid, above congealing point – liquid; colour: from white to light yellow

b) Odour	: Typical for hydrocarbons
c) Odour threshold	: Not tested
d) pH	: ~ 7 (water solution)
e) Congealing Point	: 40°C
f) Boiling Point	: min. 300°C
g) Flash Point	: min. 200°C
h) Evaporation rate	: Not tested
i) Flammability	: Not classified as flammable
j) Upper/Lower Flammable Limits	: Not tested
k) Vapour Pressure	: negligible under normal conditions of use in 20°C, 0-20 Pa in 80°C
l) Vapour Density	: Not tested
m) Relative Density	: about 755 kg/m ³ in 100°C
n) Solubility	: in water - negligible
o) Partition coefficient (n-Octanol/Water Partition Coefficient)	: Not tested
p) Autoignition Temperature	: min. 250°C
q) Decomposition Temperature	: Not tested
r) Viscosity	: 3,5-5,4 mm ² /s in 100°C
s) Explosive Properties	: Not applicable – not classified as explosive
t) Oxidizing Properties	: Not applicable – not classified as oxidized

9.2. Other information

None.

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

Mixture is not reactive.

10.2. Chemical stability

Material is stable under normal conditions.

10.3. Possibility of hazardous reactions:

Not applicable.

10.4. Conditions to avoid:

Excessive heat and fire. Avoid temperature above 80°C

10.5. Incompatible materials:

Strong oxidisers.

10.6. Hazardous decomposition products:

Material does not decompose at ambient temperatures.

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity: not applicable

oral toxicity (rat) LD50 > 5 000 mg/kg

dermal toxicity (rat) LD50 > 2 000 mg/kg

Serious Eye Damage/Irritation: not applicable

Germ Cell Mutagenicity: not applicable

Carcinogenicity: not applicable

NOAEL: 5700 mg/kg (oral, rat)

NOAEL: 128 mg/kg (dermal, mouse)

Reproductive Toxicity: not applicable

NOAEL: 1000 mg/kg (oral, rat)

Specific Target Organ Toxicity – Single Exposure: not applicable

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Specific Target Organ Toxicity – Repeated Exposure: not applicable

Skin Corrosion/Irritation: not applicable

NOAEL: 1500 mg/kg/day (orally)

NOAEL: 2000 mg/kg/day (skin)

Aspiration: not applicable

The mixture is not classified according to Regulation (WE) nr 1272/2008 (CLP).

SECTION 12. ECOLOGICAL INFORMATION

The information given is based on data available for the material, the components of the material, and similar materials.

12.1. Toxicity:

Aquatic environment:

Fish toxicity: LC50 > 100mg/l/96h

Daphnia toxicity: EL50 > 10000mg/l/24h

Algae toxicity: NOEL >- 100mg/l/72h

12.2. Persistence and degradability

Not applicable.

12.3. Bioaccumulative potential

Not applicable.

12.4. Mobility in soil

Not applicable.

12.5. Persistence, bioaccumulation and toxicity for substance

This product is not, or does not contain, a substance that is a PBT or a vPvB.

12.6. Other adverse effects

None.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste code: **KO 05 01 99** – Wastes not otherwise specified

Do not dispose to sewage system. Prevent contamination of surface and ground waters. Consider reuse. Waste product must be recovered or utilised at authorised furnaces or waste recycling/neutralisation facilities, in accordance with the applicable regulations.

Recovery / recycling / utilisation of package waste should be performed according to the applicable regulations. CAUTION: Only completely emptied packages may be returned for recycling! Use services of authorised companies.

Act of 14 December 2012 on waste (OJ No 2013 item 21).

Act of 13 June 2013 on packaging and packaging waste management (OJ No 2013 item 888)

Regulation of the Minister of the Environment of 9 December 2014 on the waste catalogue (OJ 2014, item 1923)

SECTION 14. TRANSPORT INFORMATION

14.1. UN No.:	Not applicable
14.2. UN name	Not applicable
14.4. Package group	Not applicable
14.5. Environmental hazards	Not applicable

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14.6. Special precautions for user:

During loading, transportation and unloading of the mixture in a liquid consider the possibility of burns hot product. For this purpose, use protective gloves resistant to temperature, goggles, protective clothing. Places burned immediately be cooled with water or ice. Ask for medical assistance.

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

Not applicable

SECTION 15. REGULATORY INFORMATION

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

Act of 25 February 2011 on chemical substances and mixtures thereof (OJ of 2011 No 63, item 322, as amended). Consolidated text (OJ 2018 item 143)

Regulation of the Minister of Labour and Social Policy of 12 June 2018 on the maximum permissible concentration and intensity of factors harmful to health in the working environment (OJ 2018 item 1286).

Waste Act of 14 December 2012 (OJ 2013 item 21, as amended)

Act of 13 June 2013 on packaging and packaging waste management (OJ 2013 item 888, as amended)

Regulation of the Minister of the Environment of 9 December 2014 on the waste catalogue (OJ 2014, item 1923)

1907/2006/EC Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (corrigendum OJ L 136, 29.5.2007, as amended)

1272/2008/EC Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (OJ EU L No 353, 31.12.2008, as amended)

2015/830/EU Commission Regulation No 2015/830/EU of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the registration, evaluation, authorisation and restriction of chemicals (REACH).

15.2. Chemical safety assesment

Attaching the chemical safety assessment is not required for the mixtures not classified as hazardous.

SECTION 16. OTHER INFORMATION

A change in the version of the Safety Data Sheet: Sections 8, 13 and 15 - An amendment to the binding legal act.

List of abbreviations and acronyms that could be (but not necessarily are) used in this safety data sheet:

Acronym Full text

N/A	Not applicable
N/D	Not determined
NE	Not established
AICS	Australian Inventory of Chemical Substances
AIHA WEEL	American Industrial Hygiene Association Workplace Environmental Exposure Limits
ASTM	ASTM International, originally known as the American Society for Testing and Materials (ASTM)
DSL	Domestic Substance List (Canada)
EINECS	European Inventory of Existing Commercial Substances
ELINCS	European List of Notified Chemical Substances
ENCS	Existing and new Chemical Substances (Japanese inventory)
IECSC	Inventory of Existing Chemical Substances in China
KECI	Korean Existing Chemicals Inventory
NDSL	Non-Domestic Substances List (Canada)
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances
TLV	Threshold Limit Value (American Conference of Governmental Industrial Hygienists)
TSCA	Toxic Substances Control Act (U.S. inventory)
UVCB	Substances of Unknown or Variable composition, Complex reaction products or Biological materials
LC	Lethal Concentration
LD	Lethal Dose
LL	Lethal Loading
EC	Effective Concentration
EL	Effective Loading
NOEC	No Observable Effect Concentration
NOELR	No Observable Effect Loading Rate

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