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## SAFETY DATA SHEET

# PETROFLO 20Y604E (PetroKare AF60)

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

#### 1.1. Product identifier

Trade name or designation of the mixture      PETROFLO 20Y604E (PetroKare AF60)

Date of first issue      26/03/2010  
Version number      6.1  
Revision date      20/06/2022  
Supersedes date      08/06/2020

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

Identified uses      Polymerisation inhibitor  
Uses advised against      None known.

#### 1.3. Details of the supplier of the safety data sheet

JV Process and Water Chemicals LLC  
Address: Street V. Kadirov 10, Chirchik city,  
Tashkent Region, Republic of Uzbekistan, 111727  
Tel: +99871 209 10 40  
Email address: info@pwch.uz  
[www.pwch.uz](http://www.pwch.uz)

#### 1.4. Emergency telephone number

Multilingual emergency number (24/7)

Street V. Kadirov 10, Chirchik city,  
Tashkent Region,  
Republic of Uzbekistan, 111727

Tel: +99871 209 10 40

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

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

##### Health hazards

Skin sensitisation	Category 1	H317 - May cause an allergic skin reaction.
Reproductive toxicity	Category 1B	H360 - May damage fertility or the unborn child.
Specific target organ toxicity - single exposure	Category 3 narcotic effects	H336 - May cause drowsiness or dizziness.

##### Environmental hazards

Hazardous to the aquatic environment, acute aquatic hazard	Category 1	H400 - Very toxic to aquatic life.
Hazardous to the aquatic environment, long-term aquatic hazard	Category 1	H410 - Very toxic to aquatic life with long lasting effects.



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### 2.2. Label elements

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

**Contains:** Hydrocarbons, C10, aromatics, <1% naphthalene, Hydrocarbons, C10, aromatics, >1% naphthalene, N-(1,3-dimethylbutyl)-N'-phenyl-p-phenylenediamine, N-(4-Aminophenyl)aniline, N-methyl-2-pyrrolidone

#### Hazard pictograms



**Signal word** Danger

#### Hazard statements

H317 May cause an allergic skin reaction.  
H336 May cause drowsiness or dizziness.  
H360 May damage fertility or the unborn child.  
H410 Very toxic to aquatic life with long lasting effects.

#### Precautionary statements

##### Prevention

P261 Avoid breathing mist/vapours.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

##### Response

P302 + P352 IF ON SKIN: Wash with plenty of water.  
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P308 + P313 IF exposed or concerned: Get medical advice/attention.

**Storage** Not available.

**Disposal** Not available.

**Supplemental label information** EUH066 - Repeated exposure may cause skin dryness or cracking.

### 2.2. Other hazards

The mixture does not contain any substances included in the list established in accordance with REACH Article 59(1) for having endocrine disrupting properties at a concentration equal to or greater than 0.1% by weight. This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.

## SECTION 3: Composition/information on ingredients

### Mixtures

**Chemical description** Polymer and amines in aromatic solvent

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Hydrocarbons, C10, aromatics, <1% naphthalene	20 - < 30	N/A 918-811-1	01-2119463583-34	-	
<b>Classification:</b> STOT SE 3;H336, Asp. Tox. 1;H304, Aquatic Chronic 2;H411					
Distillates (petroleum), hydrotreated light paraffinic	0 - 30	64742-55-8 265-158-7	01-2119487077-29	649-468-00-3	
<b>Classification:</b> Asp. Tox. 1;H304					
Distillates (petroleum), solvent-dewaxed heavy paraffinic	0 - 30	64742-65-0 265-169-7	01-2119471299-27	649-474-00-6	
<b>Classification:</b> Asp. Tox. 1;H304					
Distillates (petroleum), solvent-dewaxed light paraffinic	0 - 30	64742-56-9 265-159-2	01-2119480132-48	649-469-00-9	
<b>Classification:</b> Asp. Tox. 1;H304					
N-(1,3-dimethylbutyl)-N'-phenyl-p-phenylenediamine	10 - < 20	793-24-8 212-344-0	01-2119485839-15	-	
<b>Classification:</b> Acute Tox. 4;H302, Skin Sens. 1;H317, Repr. 1B;H360, Aquatic Acute 1;H400(M=10), Aquatic Chronic 1;H410(M=10)					



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Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Distillates (petroleum), hydrotreated heavy paraffinic	0 - 30	64742-54-7 265-157-1	01-2119484627-25	649-467-00-8	
<b>Classification:</b> Asp. Tox. 1;H304					L
Hydrocarbons, C10, aromatics, >1% naphthalene	5 - < 10	N/A 919-284-0	01-2119463588-24	-	
<b>Classification:</b> Carc. 2;H351, STOT SE 3;H336, Asp. Tox. 1;H304, Aquatic Chronic 2;H411					
Formaldehyde, polymers with branched 4-nonylphenol and ethylenediamine	3 - < 5	1152269-15-2 -	-	-	
<b>Classification:</b> Skin Irrit. 2;H315, Eye Irrit. 2;H319					
N-methyl-2-pyrrolidone	1 - 3	872-50-4 212-828-1	01-2119472430-46	606-021-00-7	#
<b>Classification:</b> Skin Irrit. 2;H315, Eye Irrit. 2;H319, Repr. 1B;H360D, STOT SE 3;H335					
Naphthalene	< 1	91-20-3 202-049-5	-	601-052-00-2	#
<b>Classification:</b> Acute Tox. 4;H302, Carc. 2;H351, Aquatic Acute 1;H400, Aquatic Chronic 1;H410					
N-(4-Aminophenyl)aniline	< 0,2	101-54-2 202-951-9	-	-	
<b>Classification:</b> Acute Tox. 4;H302, Eye Irrit. 2;H319, Skin Sens. 1;H317, Aquatic Acute 1;H400, Aquatic Chronic 1;H410					
N-isopropyl-N'-phenyl-p-phenylenediamine	<= 0,1	101-72-4 202-969-7	-	612-136-00-3	
<b>Classification:</b> Skin Sens. 1;H317, Aquatic Acute 1;H400, Aquatic Chronic 1;H410					

### List of abbreviations and symbols that may be used above

ATE: Acute toxicity estimate.

M: M-factor

vPvB: very persistent and very bioaccumulative substance.

PBT: persistent, bioaccumulative and toxic substance.

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

Note L - The harmonized classification as a carcinogen does not apply because the substance contains less than 3 % DMSO extractable material as measured by IP 346.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Components listed above that have a zero minimum and a common maximum range are interchangeably used components based on availability.

The full text for all H-statements is displayed in section 16.

## SECTION 4: First aid measures

### General information

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

### 4.1. Description of first aid measures

#### Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison centre or doctor/physician if you feel unwell.

#### Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.

#### Eye contact

Rinse with water. Get medical attention if irritation develops and persists.

#### Ingestion

Rinse mouth. Get medical attention if symptoms occur.

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

May cause drowsiness or dizziness. Headache. Nausea, vomiting. May cause an allergic skin reaction. Dermatitis. Rash.



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**4.3. Indication of any immediate medical attention and special treatment needed** Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

### SECTION 5: Firefighting measures

**General fire hazards** No unusual fire or explosion hazards noted.

#### 5.1. Extinguishing media

**Suitable extinguishing media** Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

**5.2. Special hazards arising from the substance or mixture** During fire, gases hazardous to health may be formed.

#### 5.3. Advice for firefighters

**Special protective equipment for firefighters** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Special fire fighting procedures** Move containers from fire area if you can do so without risk. Prevent spillage and fire-fighting water from entering in public sewers or the immediate environment.

**Specific methods** Use standard firefighting procedures and consider the hazards of other involved materials.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** Avoid breathing mist/vapours. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

**For emergency responders** Keep unnecessary personnel away. Ensure adequate ventilation. Avoid breathing mist/vapours. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

**6.2. Environmental precautions** Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

**6.3. Methods and material for containment and cleaning up** Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. 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.

Never return spills to original containers for re-use.

**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** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing mist/vapours. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

**7.2. Conditions for safe storage, including any incompatibilities** Store locked up. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

**7.3. Specific end use(s)** Only for industrial users

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters



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### Occupational exposure limits

#### US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	TWA	5 mg/m <sup>3</sup>	Inhalable fraction.
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	TWA	5 mg/m <sup>3</sup>	Inhalable fraction.
Distillates (petroleum), solvent-dewaxed heavy paraffinic (CAS 64742-65-0)	TWA	5 mg/m <sup>3</sup>	Inhalable fraction.
Distillates (petroleum), solvent-dewaxed light paraffinic (CAS 64742-56-9)	TWA	5 mg/m <sup>3</sup>	Inhalable fraction.
Naphthalene (CAS 91-20-3)	TWA	10 ppm	

#### Hygienic Normative 2.2.5.2439-09 "Maximum Allowable Concentrations (MAC) of Noxious Substances in the Working Zone Air", Executive No.76 of 30 April 2003. (Including addendums No. 1, 2, 3, and 4).

Components	Type	Value	Form
Naphthalene (CAS 91-20-3)	Ceiling	20 mg/m <sup>3</sup>	Vapour.
N-methyl-2-pyrrolidone (CAS 872-50-4)	Ceiling	100 mg/m <sup>3</sup>	Vapour and aerosol.

#### EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU

Components	Type	Value
Naphthalene (CAS 91-20-3)	TWA	50 mg/m <sup>3</sup>
		10 ppm
N-methyl-2-pyrrolidone (CAS 872-50-4)	STEL	80 mg/m <sup>3</sup>
		20 ppm
		40 mg/m <sup>3</sup>
	TWA	10 ppm

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

**Recommended monitoring procedures** Follow standard monitoring procedures.

### Derived no effect levels (DNELs)

#### Workers

Components	Value	Assessment factor	Notes
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)			
Long-term, Local, Inhalation	5,58 mg/m <sup>3</sup>	45	Repeated dose toxicity
Long-term, Systemic, Dermal	0,97 mg/kg	72	Repeated dose toxicity
Long-term, Systemic, Inhalation	2,73 mg/m <sup>3</sup>	45	Repeated dose toxicity
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)			
Long-term, Local, Inhalation	5,58 mg/m <sup>3</sup>	45	Repeated dose toxicity
Long-term, Systemic, Dermal	0,97 mg/kg	72	Repeated dose toxicity
Long-term, Systemic, Inhalation	2,73 mg/m <sup>3</sup>	45	Repeated dose toxicity
Distillates (petroleum), solvent-dewaxed heavy paraffinic (CAS 64742-65-0)			
Long-term, Local, Inhalation	5,58 mg/m <sup>3</sup>	45	Repeated dose toxicity
Long-term, Systemic, Dermal	0,97 mg/kg	72	Repeated dose toxicity
Long-term, Systemic, Inhalation	2,73 mg/m <sup>3</sup>	45	Repeated dose toxicity
Distillates (petroleum), solvent-dewaxed light paraffinic (CAS 64742-56-9)			
Long-term, Local, Inhalation	5,58 mg/m <sup>3</sup>	45	Repeated dose toxicity
Long-term, Systemic, Dermal	0,97 mg/kg	72	Repeated dose toxicity



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Long-term, Systemic, Inhalation	2,73 mg/m <sup>3</sup>	45	Repeated dose toxicity
Hydrocarbons, C10, aromatics, <1% naphthalene (CAS N/A)			
Long-term, Systemic, Dermal	12,5 mg/kg/day		
Long-term, Systemic, Inhalation	150 mg/m <sup>3</sup>		
Hydrocarbons, C10, aromatics, >1% naphthalene (CAS N/A)			
Long-term, Systemic, Dermal	12,5 mg/kg/day	24	
Long-term, Systemic, Inhalation	151 mg/m <sup>3</sup>	12	
N-(1,3-dimethylbutyl)-N'-phenyl-p-phenylenediamine (CAS 793-24-8)			
Long-term, Systemic, Dermal	0,19 mg/kg		
Long-term, Systemic, Inhalation	0,69 mg/m <sup>3</sup>		
Short-term, Systemic, Dermal	0,95 mg/kg		
Short-term, Systemic, Inhalation	3,45 mg/m <sup>3</sup>		
N-methyl-2-pyrrolidone (CAS 872-50-4)			
Long-term, Local, Inhalation	40 mg/m <sup>3</sup>		
Long-term, Systemic, Dermal	4,8 mg/kg		
Long-term, Systemic, Inhalation	14,4 mg/m <sup>3</sup>		

#### Predicted no effect concentrations (PNECs)

Components	Value	Assessment factor	Notes
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)			
Secondary poisoning	9,33 mg/kg		Oral
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)			
Secondary poisoning	9,33 mg/kg		Oral
Distillates (petroleum), solvent-dewaxed heavy paraffinic (CAS 64742-65-0)			
Secondary poisoning	9,33 mg/kg		Oral
Distillates (petroleum), solvent-dewaxed light paraffinic (CAS 64742-56-9)			
Secondary poisoning	9,33 mg/kg		Oral
N-(1,3-dimethylbutyl)-N'-phenyl-p-phenylenediamine (CAS 793-24-8)			
Freshwater	0,37 µg/l	10	
Intermittent releases	0,28 µg/l	100	
Marine water	0,037 µg/l	100	
Secondary poisoning	1,33 mg/kg	300	Oral
Sediment (freshwater)	0,11 mg/kg		
Sediment (marine water)	0,011 mg/kg		
Soil	1,64 mg/kg	10	
N-methyl-2-pyrrolidone (CAS 872-50-4)			
Freshwater	0,25 mg/l	50	
Intermittent releases	5 mg/l	100	
Marine water	0,025 mg/l	500	
Sediment (freshwater)	0,805 mg/kg		
Sediment (marine water)	0,0805 mg/kg		
Soil	0,138 mg/kg		
STP	10 mg/l	10	

#### Exposure guidelines

##### Belgium OELs: Skin designation

Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	Can be absorbed through the skin.
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	Can be absorbed through the skin.
Distillates (petroleum), solvent-dewaxed heavy paraffinic (CAS 64742-65-0)	Can be absorbed through the skin.
Distillates (petroleum), solvent-dewaxed light paraffinic (CAS 64742-56-9)	Can be absorbed through the skin.
Naphthalene (CAS 91-20-3)	Can be absorbed through the skin.
N-methyl-2-pyrrolidone (CAS 872-50-4)	Can be absorbed through the skin.

#### 8.2. Exposure controls





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<b>Appropriate engineering controls</b>	Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>General information</b>	Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
<b>Eye/face protection</b>	If contact is likely, safety glasses with side shields are recommended. CEN : EN 166
<b>Skin protection</b>	
<b>- Hand protection</b>	Suitable gloves can be recommended by the glove supplier. Wear appropriate KOSHA Certified chemical resistant gloves. Suitable KOSHA Certified gloves can be recommended by the glove supplier. Nitrile gloves (Protection against unintentional short-term contact) Rubber gloves (Protection against unintentional short-term contact) Viton gloves (Protection against unintentional short-term contact) Coating thickness: 0.71 mm Penetration time: > 480 min CEN : EN 374-1/2/3/4; EN 420
<b>- Other</b>	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. CEN : EN ISO 13688; EN ISO 6529; EN 14605
<b>Respiratory protection</b>	In case of insufficient ventilation, wear suitable respiratory equipment. In case of insufficient ventilation, use a breathing mask with filter type: A2-P2 CEN : EN 136; EN 14387
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>Hygiene measures</b>	Observe any medical surveillance requirements. 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. Contaminated work clothing should not be allowed out of the workplace.
<b>Environmental exposure controls</b>	Inform appropriate managerial or supervisory personnel of all environmental releases. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels. Do not empty into drains, dispose of this material and its container to hazardous or special waste collection point.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid
<b>Colour</b>	Red-brown
<b>Odour</b>	Hydrocarbon
<b>Melting point/freezing point</b>	< -26 °C
<b>Boiling point or initial boiling point and boiling range</b>	177 °C
<b>Flammability</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit – upper (%)</b>	Not available.
<b>Flash point</b>	65 °C P-M(CC)
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>pH (concentrated product)</b>	Not available.
<b>Kinematic viscosity</b>	Not available.



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### Solubility

Solubility (water) 0 %  
Partition coefficient (n-octanol/water) (log value) Not available.

Vapour pressure 5 mmHg

Vapour pressure temp. 21 °C

### Density and/or relative density

Relative density 0,92

Relative density temperature 21 °C

Vapour density > 1

Particle characteristics Not available.

### 9.2. Other information

9.2.1. Information with regard to physical hazard classes No relevant additional information available.

#### 9.2.2. Other safety characteristics

Evaporation rate Slower than Ether

pH in aqueous solution 8,1 (50% Extraction)

Pour point < -26 °C

Shelf life 180 Days

Viscosity 80 mPa.s

Viscosity temperature 21 °C

VOC 44 % Calculated

## 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 Material is stable under normal conditions.

10.3. Possibility of hazardous reactions No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid Avoid temperatures exceeding the flash point. Eliminate all sources of ignition.

10.5. Incompatible materials Strong oxidising agents. Peroxides. Phenols.

10.6. Hazardous decomposition products Carbon oxides. Nitrogen oxides (NOx).

## SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

### Information on likely routes of exposure

Inhalation May cause drowsiness or dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.

Skin contact May cause an allergic skin reaction.

Eye contact Direct contact with eyes may cause temporary irritation.

Ingestion May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.

Symptoms May cause drowsiness or dizziness. Headache. Nausea, vomiting. May cause an allergic skin reaction. Dermatitis. Rash.

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity





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Product	Species	Test Results
PETROFLO 20Y604E (PetroKare AF60)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 5000 mg/kg (Calculated according to GHS additivity formula)
<b>Inhalation</b>		
<i>Mist</i>		
LC50	Rat	6,93 mg/l, 4 hour Mist (Calculated according to GHS additivity formula)
<b>Oral</b>		
LD50	Rat	> 5000 mg/kg (Calculated according to GHS additivity formula)
Components	Species	Test Results
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 5000 mg/kg
<b>Inhalation</b>		
LC50	Rat	> 2,18 mg/l/4h
<b>Oral</b>		
LD50	Rat	> 5000 mg/kg
Distillates (petroleum), solvent-dewaxed heavy paraffinic (CAS 64742-65-0)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rat	> 5000 mg/kg
<b>Inhalation</b>		
<i>Mist</i>		
LC50	Rat	> 5 mg/l, 4 hours
<b>Oral</b>		
LD50	Rabbit	> 5000 mg/kg
Distillates (petroleum), solvent-dewaxed light paraffinic (CAS 64742-56-9)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 5000 mg/kg
<b>Inhalation</b>		
LC50	Rat	> 5 mg/l, 4 Hours
<b>Oral</b>		
LD50	Rat	> 5000 mg/kg
Hydrocarbons, C10, aromatics, <1% naphthalene		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 2000 mg/kg
<b>Inhalation</b>		
LC50	Rat	> 4688 mg/m3, 4 hours (Saturated vapor concentration)
<b>Oral</b>		
LD50	Rat	7050 mg/kg



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Components	Species	Test Results
Hydrocarbons, C10, aromatics, >1% naphthalene		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 2000 mg/kg
<b>Inhalation</b>		
LC50	Rat	> 4688 mg/m <sup>3</sup> , 4 hours (Saturated vapor concentration)
<b>Oral</b>		
LD50	Rat	> 2000 mg/kg
N-(1,3-dimethylbutyl)-N'-phenyl-p-phenylenediamine (CAS 793-24-8)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 7940 mg/kg
<b>Oral</b>		
LD50	Rat	893 mg/kg
N-(4-Aminophenyl)aniline (CAS 101-54-2)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 5000 mg/kg
<b>Oral</b>		
LD50	Rat	464 mg/kg
Naphthalene (CAS 91-20-3)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 16000 mg/kg
<b>Oral</b>		
LD50	Rat	> 2000 mg/kg
N-methyl-2-pyrrolidone (CAS 872-50-4)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 5000 mg/kg
<b>Inhalation</b>		
LC50	Rat	> 5,1 mg/l, 4 hour
<b>Oral</b>		
LD50	Rat	4150 mg/kg
<b>Skin corrosion/irritation</b>	Based on available data, the classification criteria are not met.	
<b>Serious eye damage/eye irritation</b>	Based on available data, the classification criteria are not met.	
<b>Respiratory sensitisation</b>	Based on available data, the classification criteria are not met.	
<b>Skin sensitisation</b>	May cause an allergic skin reaction.	
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.	
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.	
<b>Reproductive toxicity</b>	May damage fertility or the unborn child.	
<b>Specific target organ toxicity - single exposure</b>	May cause drowsiness or dizziness.	
<b>Specific target organ toxicity - repeated exposure</b>	Based on available data, the classification criteria are not met.	



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# PETROFLO 20Y604E (PetroKare AF60)

<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.
<b>Mixture versus substance information</b>	No information available.
<b>11.2. Information on other hazards</b>	
<b>Endocrine disrupting properties</b>	This mixture does not contain any substances having endocrine disrupting properties with respect to human health as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.
<b>Other information</b>	Not available.

## SECTION 12: Ecological information

<b>12.1. Toxicity</b>	Very toxic to aquatic life with long lasting effects.
<b>12.2. Persistence and degradability</b>	No data is available on the degradability of this product.
<b>12.3. Bioaccumulative potential</b>	
<b>Partition coefficient n-octanol/water (log Kow)</b>	
N-methyl-2-pyrrolidone	-0,38
Naphthalene	3,3
<b>Bioconcentration factor (BCF)</b>	Not available.
<b>12.4. Mobility in soil</b>	No data available.
<b>12.5. Results of PBT and vPvB assessment</b>	This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.
<b>12.6. Endocrine disrupting properties</b>	This mixture does not contain any substances having endocrine disrupting properties with respect to the environment as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.
<b>12.7. Other adverse effects</b>	The product contains volatile organic compounds which have a photochemical ozone creation potential.

## SECTION 13: Disposal considerations

<b>13.1. Waste treatment methods</b>	
<b>Residual waste</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.  According to Hazardous Waste Regulations. European List of Wastes (LoW) code recommendation : 15 01 10 15 Waste packaging; absorbents, wiping cloths, filter materials and protective clothing not otherwise specified. 15 01 Packaging (including separately collected municipal packaging waste). 15 01 10 Packaging containing residues of or contaminated by dangerous substances. Depending on the origin and state of the waste, other codes may be applicable too.
<b>Disposal methods/information</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.  According to Hazardous Waste Regulations. European List of Wastes (LoW) code recommendation : 16 03 05 16 Wastes not otherwise specified in the list. 16 03 Off-specification batches and unused products. 16 03 05 Organic wastes containing dangerous substances. Depending on the origin and state of the waste, other codes may be applicable too.
<b>Special precautions</b>	Dispose in accordance with all applicable regulations.



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## SAFETY DATA SHEET

### PETROFLO 20Y604E (PetroKare AF60)

#### SECTION 14: Transport information

##### ADR

14.1. UN number or ID number	UN3082
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (N-(1,3-dimethylbutyl)-N'-phenyl-p-phenylenediamine, Hydrocarbons, C10, aromatics, <1% naphthalene, mixture)
14.3. Transport hazard class(es)	
Class	9
Subsidiary risk	-
Tunnel restriction code	(-)
14.4. Packing group	III
14.5. Environmental hazards	Yes
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

##### RID

14.1. UN number or ID number	UN3082
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (N-(1,3-dimethylbutyl)-N'-phenyl-p-phenylenediamine, Hydrocarbons, C10, aromatics, <1% naphthalene, mixture)
14.3. Transport hazard class(es)	
Class	9
Subsidiary risk	-
14.4. Packing group	III
14.5. Environmental hazards	Yes
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

##### ADN

14.1. UN number or ID number	UN3082
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (N-(1,3-dimethylbutyl)-N'-phenyl-p-phenylenediamine, Hydrocarbons, C10, aromatics, <1% naphthalene, mixture)
14.3. Transport hazard class(es)	
Class	9
Subsidiary risk	-
14.4. Packing group	III
14.5. Environmental hazards	Yes
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

##### IATA

14.1. UN number or ID number	UN3082
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (N-(1,3-dimethylbutyl)-N'-phenyl-p-phenylenediamine, Hydrocarbons, C10, aromatics, <1% naphthalene, mixture)
14.3. Transport hazard class(es)	
Class	9
Subsidiary risk	-
14.4. Packing group	III
14.5. Environmental hazards	Yes
ERG Code	Not available.
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

##### IMDG

14.1. UN number or ID number	UN3082
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## SAFETY DATA SHEET

### PETROFLO 20Y604E (PetroKare AF60)

<b>14.2. UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (N-(1,3-dimethylbutyl)-N'-phenyl-p-phenylenediamine, Hydrocarbons, C10, aromatics, <1% naphthalene, mixture)
<b>14.3. Transport hazard class(es)</b>	
Class	9
Subsidiary risk	-
<b>14.4. Packing group</b>	III
<b>14.5. Environmental hazards</b>	
Marine pollutant	Yes
<b>EmS</b>	F-A, S-F
<b>14.6. Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>14.7. Maritime transport in bulk according to IMO instruments</b>	Not established.

ADN; ADR; IATA; IMDG; RID



Marine pollutant



## 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 (EU) 2019/1021 On persistent organic pollutants (recast), 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**

Naphthalene (CAS 91-20-3)



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# PETROFLO 20Y604E (PetroKare AF60)

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

N-methyl-2-pyrrolidone (CAS 872-50-4)

### Authorisations

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

N-methyl-2-pyrrolidone (CAS 872-50-4) 30  
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Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

- Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)
- Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)
- Distillates (petroleum), solvent-dewaxed heavy paraffinic (CAS 64742-65-0)
- Distillates (petroleum), solvent-dewaxed light paraffinic (CAS 64742-56-9)
- Naphthalene (CAS 91-20-3)

### Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Naphthalene (CAS 91-20-3)

### Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended. Additional information is given in the Safety Data Sheet. This product is classified and labelled in accordance with the retained CLP Regulation (EC) No 1272/2008, as amended for Great Britain. This Safety Data Sheet is compiled in accordance with REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758.

### National regulations

According to Directive 92/85/EEC as amended, pregnant women should not work with the product, if there is the least risk of exposure.

Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended. Additional information is given in the Safety Data Sheet. Use of this product by young persons under the age of 18 is not allowed in accordance with the Management of Health and Safety at Work Regulations 1999 [SI 1999/3242], as amended. New or expectant mothers should not work with this product if there is a risk due to exposure, in accordance with the Management of Health and Safety at Work Regulations 1999 [SI 1999/3242], as amended.

### Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)  
 A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

## SECTION 16: Other information

### List of abbreviations

- ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
- AICIS: Australian Inventory of Industrial Chemicals.
- CAS: Chemical Abstract Service.
- CEN: European Committee for Standardization.
- CLP: Classification, Labeling and Packaging REGULATION (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures.
- EC50: Effective Concentration 50%.
- IATA: International Air Transport Association.





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## SAFETY DATA SHEET

# PETROFLO 20Y604E (PetroKare AF60)

Version: 6.1

Effective date: 20/06/2022

Previous Date: 08/06/2020

IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk.

IMDG: International Maritime Dangerous Goods.

LC50: Lethal Concentration 50%.

LD50: Lethal Dose 50%.

MARPOL: International Convention for the Prevention of Pollution from Ships.

NOEL: No observed effect level.

PBT: Persistent, bioaccumulative and toxic.

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

TOC: Total Organic Carbon.

vPvB: Very persistent and very bioaccumulative.

EC-No: European Commission Number

COD: Chemical Oxygen Demand

BOD: Biochemical oxygen demand.

Safety data sheets of raw materials.

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

### References

Information on evaluation method leading to the classification of mixture

Full text of any statements, which are not written out in full under sections 2 to 15

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.

H360 May damage fertility or the unborn child.

H360D May damage the unborn child.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

### Revision information

This document has undergone significant changes and should be reviewed in its entirety.

### Training information

Follow training instructions when handling this material.

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

### Based on EC Directive / Regulations

(EC) No 1907/2006 (REACH)

(EC) No 1272/2008

(EU) No 1357/2014

(EU) No 2020/878

### Further information

Correction in Section: 2,3,4,5,6,7,8,9,10,11,12,13