

Version: 8.3 date: 21/02/2020

Effective date: 21/02/2020 Previous Date: 30/03/2018

# SAFETY DATA SHEET PETROFLO 20Y600 (PetroKare PK 10 AF)

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

1.1. Product identifier

Trade name or designation

PETROFLO 20Y600 (PetroKare PK 10 AF)

of the mixture

Version number 8.3

 Revision date
 21/02/2020

 Supersedes date
 30/03/2018

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

Identified uses Water based 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

# 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

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

Physical	hazards
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Corrosive to metals Category 1 H290 - May be corrosive to metals.

**Health hazards** 

Acute toxicity, oral Category 4 H302 - Harmful if swallowed.

Acute toxicity, dermal Category 4 H312 - Harmful in contact with skin.

Skin corrosion/irritation Category 2 H315 - Causes skin irritation.

Serious eye damage/eye irritation Category 2 H319 - Causes serious eye

irritation.

Skin sensitisation Category 1 H317 - May cause an allergic skin

reaction.

Carcinogenicity Category 2 H351 - Suspected of causing

cancer.



Effective date: 21/02/2020 Previous Date: 30/03/2018

# SAFETY DATA SHEET PETROFLO 20Y600 (PetroKare PK 10 AF)

Specific target organ toxicity - repeated exposure (oral)

Category 2 (blood, spleen)

H373 - May cause damage to organs (blood, spleen) through prolonged or repeated exposure by

ingestion.

**Environmental hazards** 

Hazardous to the aquatic environment, acute Category 1

aquatic hazard

Hazardous to the aquatic environment, Category 3

long-term aquatic hazard

H400 - Very toxic to aquatic life.

H412 - Harmful to aquatic life with

long lasting effects.

## 2.2. Label elements

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

Contains: hydroxylamine sulfate (2:1)

**Hazard pictograms** 



Signal word Warning

**Hazard statements** 

May be corrosive to metals. H290 Harmful if swallowed. H302 Harmful in contact with skin. H312 Causes skin irritation. H315

May cause an allergic skin reaction. H317 Causes serious eve irritation. H319 Suspected of causing cancer. H351

May cause damage to organs (blood, spleen) through prolonged or repeated exposure by H373

ingestion.

Very toxic to aquatic life with long lasting effects. H410

### **Precautionary statements**

Prevention

Avoid release to the environment. P273

Response

IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P301 + P330 + P331

IF ON SKIN: Wash with plenty of water. P302 + P352

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present P305 + P351 + P338

and easy to do. Continue rinsing

Immediately call a POISON CENTRE/doctor. P310

Storage

Store in a corrosion resistant container with a resistant inner liner. P406

Disposal Not available.

**Supplemental label information** None.

2.3. Other hazards None known.

# **SECTION 3: Composition/information on ingredients**

**Mixtures** 

Chemical description Aqueous solution of amines

Chemical name CAS-No. / EC **REACH Registration No.** Index No. **Notes** No.

hydroxylamine sulfate (2:1) 30 - < 40 10039-54-0 01-2119485971-25 612-123-00-2

233-118-8

Classification: Met. Corr. 1;H290, Acute Tox. 4;H302, Acute Tox. 4;H312, Skin Irrit. 2;H315, Skin

Sens. 1;H317, Eye Irrit. 2;H319, Carc. 2;H351, STOT RE 2;H373, Aquatic Acute

1;H400, Aquatic Chronic 3;H412



Effective date: 21/02/2020 Previous Date: 30/03/2018

# SAFETY DATA SHEET

# PETROFLO 20Y600 (PetroKare PK 10 AF)

The classification of the above substance(s) is given, including the hazard class, category code and hazard statements which are assigned in accordance with their physicochemical, health and environmental hazards. Please refer to section 16 where the full text of each relevant H-statement is listed.

### **SECTION 4: First aid measures**

4.1. Description of first aid measures

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Get medical attention immediately.

**Skin contact** Take off immediately all contaminated clothing.

Wash off immediately with soap and plenty of water.

Get medical attention immediately.

**Eye contact** Immediately flush eye(s) with plenty of water.

Get medical attention if irritation persists after washing.

**Ingestion** Rinse mouth.

Do not induce vomiting.

Do not give anything to eat or drink.

Call a physician or poison control centre immediately.

4.2. Most important symptoms and effects, both acute and

Irritant effects. Sensitisation.

delayed
4.3. Indication of any

Not available.

Not available.

immediate medical attention and special treatment needed

# **SECTION 5: Firefighting measures**

5.1. Extinguishing media

Suitable extinguishing

media

Dry chemical, CO2, water spray or regular foam.

Unsuitable extinguishing

media

5.2. Special hazards arising from the substance or mixture

Oxides of sulphur and nitrogen evolved in fire.

5.3. Advice for firefighters

Special protective equipment for firefighters

Self contained breathing apparatus. (CEN: EN 137)

Protective clothing (CEN: EN 469) Protective gloves (CEN: EN 659)

Helmet (CEN: EN 443)

Special fire fighting

procedures

Use standard firefighting procedures and consider the hazards of other involved materials. Prevent spillage and fire-fighting water from entering in public sewers or the immediate

environment.

# **SECTION 6: Accidental release measures**

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

For non-emergency

personnel

Wear protective clothing, gloves and safety goggles.

**For emergency responders** Use personal protection recommended in Section 8 of the SDS. **6.2. Environmental precautions** Prevent from entering sewers or the immediate environment.

Do not empty into drains, dispose of this material and its container to hazardous or special waste

collection point.

6.3. Methods and material for containment and cleaning up

Absorb onto inert material and dispose of according to Hazardous Waste Regulations.

Remove small spills with plenty of water.

6.4. Reference to other sections

Please refer also to section no. 8 'Exposure controls' for further information.

### **SECTION 7: Handling and storage**

7.1. Precautions for safe

Acidic.

handling Do not mix with alkaline material.

Material name: PETROFLO 20Y600 (PetroKare PK 10 AF)



Version: 8.3 Effective date: 21/02/2020

Previous Date: 30/03/2018

# SAFETY DATA SHEET

# PETROFLO 20Y600 (PetroKare PK 10 AF)

7.2. Conditions for safe storage, including any incompatibilities

Do not store at elevated temperatures. Preferably stored between 5-40°C Store containers closed when not in use.

Protect from freezing.

Store in corrosive resistant container with a resistant inner liner.

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

Shelf life 270 days

# **SECTION 8: Exposure controls/personal protection**

8.1. Control parameters

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

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

Recommended monitoring

procedures

Not available.

Derived no effect levels (DNELs)

#### **Workers**

Components	Value	Assessment factor	Notes
hydroxylamine sulfate (2:1) (CAS 10039-5	54-0)		
Long-term, Systemic, Inhalation	0,008 mg/m3	62.5	Carcinogenicity
Short-term Systemic Inhalation	0.032 mg/m3		

### Predicted no effect concentrations (PNECs)

Components	Value	Assessment factor Notes
hydroxylamine sulfate (2:1) (CAS 1003	39-54-0)	
Freshwater	0,031 mg/l	10
Intermittent releases	0,0072 mg/l	
Marine water	0,003 mg/l	500
Sediment (freshwater)	0,112 mg/kg	
Sediment (marine water)	0,011 mg/kg	
Soil	0,004 mg/kg	
STP	0,07 mg/l	10

# 8.2. Exposure controls

Appropriate engineering

controls

Ensure good ventilation.

Individual protection measures, such as personal protective equipment

Splash proof chemical goggles. Eye/face protection

**CEN: EN 166** 

Skin protection

- Hand protection PVC gloves (Protection against unintentional short-term contact) Coating thickness: 0.8 mm

Rubber gloves (Protection against unintentional short-term contact) Coating thickness: 0.5 mm Butyl gloves (Protection against unintentional short-term contact) Coating thickness: 0.7 mm Nitrile gloves (Protection against unintentional short-term contact) Coating thickness: 0.4 mm

Penetration time: > 480 min CEN: EN 374-1/2/3/4; EN 420

- Other Protective clothing.

CEN: EN ISO 13688; EN ISO 6529; EN 14605

Respiratory protection In case of insufficient ventilation, use a breathing mask with filter type: P2

CEN: EN 140; EN 143; EN 149

Thermal hazards Not available.

**Environmental exposure** 

controls

Prevent from entering in public sewers or the immediate environment.

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

Material name: PETROFLO 20Y600 (PetroKare PK 10 AF)

Page: 4 / 10



Effective date: 21/02/2020 Previous Date: 30/03/2018

# SAFETY DATA SHEET

# PETROFLO 20Y600 (PetroKare PK 10 AF)

**Appearance** 

ColourColourlessPhysical stateLiquidOdourAmine

Odour threshold Not available.

pH (concentrated product) 2,8

pH in aqueous solution 3,7 (5% SOL.)

Melting point/freezing point -6 °C

Initial boiling point and boiling

range

Not available.

Flash point > 100 °C

Evaporation rate < 1 (Ether = 1)

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

Vapour pressure 18 mm Hg
Vapour pressure temp. 21 °C
Vapour density < 1 (Air = 1)

Relative density 1,2
Relative density temperature 21 °C

Solubility

Solubility (water) 100 %

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not applicable.

Decomposition temperature Not available.

Viscosity 5 cps Viscosity temperature 21 °C

**Explosive properties**Not available. **Oxidising properties**Not available.

9.2. Other information

 Pour point
 -3 °C

 Shelf life
 270 days

 VOC
 0 % (Estimated)

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SECTION 10: Stability and reactivity

**10.1. Reactivity** Strong oxidising agents. Alkalies.

**10.2. Chemical stability** Material is stable under normal conditions.

10.3. Possibility of hazardous

reactions

Not applicable.

**10.4. Conditions to avoid** Keep away from heat.

Temperatures above > 80 °C

10.5. Incompatible materials Avoid contact with strong oxidisers. Avoid contact with mild steel. Nitrates.

**10.6. Hazardous** Oxides of sulphur and nitrogen evolved in fire.

decomposition products



Effective date: 21/02/2020 Previous Date: 30/03/2018

# SAFETY DATA SHEET PETROFLO 20Y600 (PetroKare PK 10 AF)

# **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

PETROFLO 20Y600 (PetroKare PK 10 AF) (Mixture)

Acute Dermal LD50 Rabbit: > 1500 mg/kg (Calculated according to GHS additivity formula)

Acute Inhalation LC50 Rat: > 5 mg/l 4 hours (Calculated according to GHS additivity formula)

Acute Oral LD50 Rat: 1660 mg/kg (Calculated according to GHS additivity formula)

Components

Test Results

hydroxylamine sulfate (2:1) (10039-54-0)

Acute Dermal LD50 Rabbit: 1500 - 2000 mg/kg

Acute Oral LD50 Rat: 642 mg/kg

Acute toxicity Harmful in contact with skin.

Harmful if swallowed.

**Skin corrosion/irritation** Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin

sensitisation

May cause an allergic skin reaction.

Specific target organ toxicity -

repeated exposure

May cause damage to organs (blood, spleen) through prolonged or repeated exposure by

ingestion.

Specific target organ toxicity -

single exposure

Based on available data, the classification criteria are not met.

Carcinogenicity Suspected of causing cancer.

**Germ cell mutagenicity**Based on available data, the classification criteria are not met. **Reproductive toxicity**Based on available data, the classification criteria are not met.

Information on likely routes of exposure

**Ingestion** Harmful if swallowed.

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

**Inhalation** Prolonged or excessive inhalation may cause respiratory tract irritation.

**Skin contact** Causes skin irritation.

May cause an allergic skin reaction.

**Eye contact** Causes serious eye irritation.

Symptoms Not available.

Aspiration hazard Based on available data, the classification criteria are not met.

Mixture versus substance

information

None known.

Other information Not available.

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

Product		Species	Test Results
PETROFLO 20Y600 (Petro	oKare PK 10 AF) (0	CAS Mixture)	
Crustacea	LC50	Daphnia magna	1,7 mg/l, Static Renewal Bioassay, 48 hour
	NOEL	Daphnia magna	1,4 mg/l, Static Renewal Bioassay, 48 hour
Fish	LC50	Rainbow trout	8,5 mg/l, Static Renewal Bioassay, 96 hour

Material name: PETROFLO 20Y600 (PetroKare PK 10 AF)



Effective date: 21/02/2020 Previous Date: 30/03/2018

# SAFETY DATA SHEET

# PETROFLO 20Y600 (PetroKare PK 10 AF)

 Product
 Species
 Test Results

 NOEL
 Rainbow trout
 3,1 mg/l, Static Renewal Bioassay, 96 hour

12.2. Persistence and degradability

No data available

**12.3. Bioaccumulative potential** Not available. **Partition coefficient** Not available.

n-octanol/water (log Kow)

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil Not available.

12.5. Results of PBT and vPvB

assessment

Not a PBT or vPvB substance or mixture.

**12.6. Other adverse effects** Not available.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

**Contaminated packaging** According to Hazardous Waste Regulations.

EWC (European Waste 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 EWC numbers may be applicable too.

**Disposal methods/information** According to Hazardous Waste Regulations.

EWC (European Waste Code) recommendation: 16 03 03

16 Wastes not otherwise specified in the list.

16 03 Off-specification batches and unused products.

16 03 03 Inorganic wastes containing dangerous substances.

Depending on the origin and state of the waste, other EWC numbers may be applicable too.

## **SECTION 14: Transport information**

#### ADR

14.1. UN number UN3264

14.2. UN proper shipping

name

Corrosive liquid, acidic, inorganic, n.o.s. (Hydroxylamine sulphate, Mixture)

14.3. Transport hazard class(es)

Class 8
Subsidiary risk Tunnel restriction code (E)
14.4. Packing group III
14.5. Environmental hazards Yes

14.6. Special precautions Not available.

for user

RID

**14.1. UN number** UN3264

**14.2. UN proper shipping** Corrosive liquid, acidic, inorganic, n.o.s. (Hydroxylamine sulphate, Mixture)

name

14.3. Transport hazard class(es)

Class 8
Subsidiary risk 
14.4. Packing group III

14.5. Environmental hazards Yes

14.6. Special precautions Not available.

for user



Version: 8.3 Effective date: 21/02/2020

Previous Date: 30/03/2018

# SAFETY DATA SHEET

# PETROFLO 20Y600 (PetroKare PK 10 AF)

#### ADN

**14.1. UN number** UN3264

**14.2. UN proper shipping** Corrosive liquid, acidic, inorganic, n.o.s. (Hydroxylamine sulphate, Mixture)

name

14.3. Transport hazard class(es)

Class 8
Subsidiary risk 
14.4. Packing group III

14.5. Environmental hazards Yes

14.6. Special precautions Not available.

for user

IATA

**14.1. UN number** UN3264

**14.2. UN proper shipping** Corrosive liquid, acidic, inorganic, n.o.s. (Hydroxylamine sulphate, Mixture)

name

14.3. Transport hazard class(es)

Class 8
Subsidiary risk 14.4. Packing group III
14.5. Environmental hazards Yes

**ERG Code** Not available. **14.6. Special precautions** Not available.

for user

**IMDG** 

**14.1. UN number** UN3264

**14.2. UN proper shipping** Corrosive liquid, acidic, inorganic, n.o.s. (Hydroxylamine sulphate, Mixture)

name

14.3. Transport hazard class(es)

Class 8
Subsidiary risk 14.4. Packing group III
14.5. Environmental hazards
Marine pollutant Yes

EmS F-A, S-B

14.6. Special precautions Not available.

for user

**14.7. Transport in bulk**This substance/mixture is not intended to be transported in bulk.
according to Annex II of

MARPOL and the IBC Code







Effective date: 21/02/2020 Previous Date: 30/03/2018

# SAFETY DATA SHEET PETROFLO 20Y600 (PetroKare PK 10 AF)

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

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 Not listed.

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 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 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.

hydroxylamine sulfate (2:1) (CAS 10039-54-0)

## Other EU regulations

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

hydroxylamine sulfate (2:1) (CAS 10039-54-0)

National regulations Not available.

15.2. Chemical safety
assessment Not available.

Inventory status

Country(s) or region Inventory name

On inventory (yes/no)\*

Europea Inventory of Existing Commercial Chemical

Yes

Substances (EINECS)

Europe European List of Notified Chemical Substances (ELINCS)

INO

<sup>\*</sup>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).



Effective date: 21/02/2020 Previous Date: 30/03/2018

# SAFETY DATA SHEET PETROFLO 20Y600 (PetroKare PK 10 AF)

#### **SECTION 16: Other information**

List of abbreviations

COD: Chemical Oxygen Demand EC-No: European Commission Number IATA: International Air Transport Association

CAS: Chemical Abstract Service.

CLP: Classification, Labeling and Packaging REGULATION (EC) No 1272/2008 on classification,

labeling and packaging of substances and mixtures.

CEN: European Committee for Standardization (Comité Européen de Normalisation).

TWA: Time Weighted Average. STEL: Short-term Exposure Limit.

LD50: Lethal Dose 50%.

LC50: Lethal Concentration 50%. EC50: Effective Concentration 50%. NOEL: No observed effect level. BOD: Biochemical oxygen demand. TOC: Total Organic Carbon.

ADR: European agreement concerning the international carriage of dangerous goods by road

(Accord européen relatif transport des merchandises dangereuses par route).

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures).

IMDG Code: International Maritime Dangerous Goods Code.

RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer).

**References** Safety data sheets of raw materials.

Information on evaluation method leading to the classification of mixture

Full text of any H-statements not written out in full under Sections 2 to 15 The physical, health and environmental hazards of this mixture are assessed by applying the classification criteria for each hazard class or differentiation in Parts 2 to 5 of Annex I to Regulation (EC) No 1272/2008 (CLP).

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation. H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or repeated exposure by ingestion.

H400 Very toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

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

**Training information** Provide training on safe handling while considering the type of application and exposure scenarios.

Based on EC Directive / (EC) No 1907/2006 (REACH)
Regulations (EC) No 1272/2008

(EC) No 1272/2008 (EU) 2015/830 (EU) No 1357/2014

**Further information** Correction in Section: 2,8,11

Material name: PETROFLO 20Y600 (PetroKare PK 10 AF)

Page: 10 / 10