
SHEET OF TYPICAL PROPERTIES

Product code: 155
Short name: P - 550

Petrelab 550

PROPERTIES	TEST METHOD	TYPICAL
Colour		
APHA / HAZEN	ASTM D 1209 (*)	5
Saybolt	ASTM D 156 (*)	+ 30
Density, g/ml, 15 °C.....	ASTM D 4052 (*)	0.8603
Bromine Index.....	ASTM D 2710 (*)	3
Distribution of carbon chains, wt %.....	UOP 673 (*)	
< 5 Phenyl C10.....		1
Phenyl C10.....		12
Phenyl C11		35
Phenyl C12.....		29
Phenyl C13.....		22
Phenyl C14.....		1
Average molecular weight.....	UOP 673 (*)	240.0
Purity		
Paraffins, wt %.....	UOP 673 (*)	0.2
Tetralins and Indans, wt %	ECOSOL HPLC (*)	0.1
Water, ppm.....	UOP 481 (*)	40
Viscosity, cSt, 100 °F	ASTM D 445 (*)	4.5
2 Phenyl alkanes, wt %	UOP 673 (*)	16
Flash point, P / M, °C	ASTM D 93 (*)	140
Completeness of sulfonation, wt %	PETRESA LS 708 (*)	98.5
Boiling range, °C.....	ASTM D 86 (*)	285 -308
Aniline point, °C	ASTM D 611 (*)	16
Refractive index, 20 °C.....	ASTM D 1218 (*)	1.483
Acidity, mg KOH/g	ASTM D 847 (*)	0.05

(*) Last revision of the method

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SAFETY DATA SHEET

1 Identification

1.1 Substance / Preparation

Petrelab[®] 550 - Q

Linear alkylbenzene containing side alkyl chains of 10 - 13 carbon atoms, averaging 11.7 atoms.

CAS Nr.: 67774 - 74 - 7

EINECS Nr.: 267 - 051 - 0

(Benzene, C₁₀₋₁₃ - alkyl derivs.)

Formula: CH₃ - (CH₂)_n - CH [C₆H₅] - (CH₂)_m - CH₃ (n + m = 7 - 10) (n, m = 0 - 10)

Average molecular weight: 238 - 245

Alternative names: Detergent alkylate

1.2 Use of the substance / preparation

PETRELAB[®] 550 - Q (P 550 - Q) is used as raw material for the surfactant manufacture.

1.3 Responsibles for commercialization

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(32) 2.548 97 20 (32) 2.513 57 74

1.4 Emergency telephone number

PETRESA. Plant in San Roque (Cádiz) Spain: (34) 956 58.22.00

2 Composition / information on ingredients

See Section 1.1 "IDENTIFICATION. SUBSTANCE / PREPARATION".

It does not contain hazardous products / substances.

This product is not classified as dangerous substance / preparation according to the EU legislation (Directive 67/548/EC and its ATP). However, the usual precaution must be taken when handling chemical products.

3 Hazards identification

3.1 Classification of the substance / preparation

It is not classified as dangerous substance / preparation according to the EU regulation

3.2 Physical and chemical hazards

Eyes: Liquid contact or exposure to high vapour concentrations may result in irritation.

Skin: Repeated or prolonged skin contact may result in irritation or drying of the skin, progressing to dermatitis.

Inhalation: Due to low volatility, this product is not an inhalation hazard under normal circumstances. Prolonged exposure to high vapour concentrations may cause dizziness and headaches.

Ingestion: Ingestion of small amounts may result in nausea and vomiting.

Effects of overexposure:

Acute overexposure: Irritation, dizziness, nausea.

Chronic overexposure: Unknown

3.3 Fire and explosion hazards

None

See Section 10 "STABILITY AND REACTIVITY".

4 First aid

Eyes: Flush with large amount of water at least 15 min. Send to oculist.

Skin: Wash with water and soap.

Inhalation: Remove person to fresh air. If needed, administer artificial respiration, oxygen or cardiopulmonary resuscitation and seek medical aid.

Ingestion: Do not induce vomiting. Seek medical aid.

In case of accident, please, contact the Toxicological Information Service. Tel: (34) 91.562.04.20

5 Fire - fighting measures

Extinguishing media: Water spray, dry chemical, CO₂, foamy.

Water may cause frothing.

Special fire - fighting procedures: Self - contained breathing apparatus should be worn when fighting fires in confined spaces.

Protection against fires and explosions: The usual ones for this type of hydrocarbons.

Hazardous combustion products: Fumes and carbon monoxide (CO).

6 Accidental release measures

Land spill: Keep public away. Eliminate ignition sources. Contain the spill if possible. Avoid the contamination of sewers, watercourses and the ground water and also the soil and vegetation. Advise authorities and alert to vicinity if proceed.

Contain spilled liquid with a solid sorbent such as sand or earth. Place the recovered material in suitable containers for recycle or disposal.

Consult an expert on disposal of recovered material. Material can be incinerated under controlled conditions or landfilled according to official and local regulations.

See Section 4 "FIRST AID" as well as Section 10 "STABILITY AND REACTIVITY".

Water spill: Warn other shipping. Notify port or relevant authority and keep public away.

Isolate the zone and avoid ecological damage.

Contain and confine the spill if possible.

Remove from surface by skimming or with suitable absorbents.

Consult an expert on disposal of recovered material and ensure conformity to local and official regulations.

See also Section 4 "FIRST AID" and Section 10 "STABILITY AND REACTIVITY"

7 Handling and storage

7.1 Handling

Loading / unloading temperature: Ambient

Viscosity at loading / unloading temperature: 4.5 cSt (at 100 °F)

Usual shipping containers:

Tank trucks
 Tank containers
 Ship tanks

Local exhaust is recommended for use of material in enclosed spaces or at elevated temperatures.

7.2 Storage

Storage temperature: Ambient
 Storage pressure: Atmospheric
 Electrostatic accumulation hazard: No
 Handling and storage materials and coatings:

Suitable:

Carbon steel
 Baked epoxy or Phenolic coatings
 Aluminum

Unsuitable:

Natural rubber
 Butyl rubber

Incompatibility with strong oxidizers. Do not store near them which could aggravate any fire situation.

8 Exposure control / personal protection**8.1 Exposure limit values**

Threshold limit value (T.L.V.): Not established.

8.2 Exposure controls

Personal protective equipment:

Respiratory: Ventilation or air - supplied equipment.
 Hands: Impermeable rubber gloves of PVC, neoprene or similar.
 Ocular: Goggles to protect from splashing organic chemical products.
 Others: Impervious clothing (boots, slicker suits) as needed to prevent prolonged skin contact.
 Labour hygiene: Prolonged skin contacts with the product and prolonged exposures to high vapour concentrations must be prevented.

9 Physical and chemical properties

Appearance:

Physical state: Liquid
 Colour: Colourless, clear and bright.

Odour: Odourless

pH: Not applicable

Boiling range: 285 - 308 °C

(ASTM D 86)

Melting / freezing point: < - 50 °C

(ASTM D 97)

Flash point, P / M: 140 °C

(ASTM D 93)

Autoignition temperature: 338 °C

(ASTM E 659)

Flammable limits in air (% vol.): Unknown

Vapour pressure (at 20 °C): < 0.1 mm Hg

(ASTM D 323)

Density (at 15 °C): 0.858 - 0.868 g/cm³

(ASTM D 4052)

Solubility in water (at 20 °C): 40 µg/l

Vapour density (Air = 1): 8.4

Viscosity (at 100 °F): 4.5 cSt

(ASTM D 445)

10 Stability and reactivity

Stability: Stable
 Conditions to avoid instability: Not applicable
 Materials and conditions to avoid (Incompatibility): Strong oxidizers
 Hazardous polymerization: No
 Conditions to avoid polymerization: Not applicable
 Hazardous decomposition products: None
 Thermal decomposition: It vaporizes without decomposition
 Hazardous reactions: Not known

11 Toxicological information

Acute lethal dermal dose to rats: > 2.0 g/kg
 Skin contact:
 It elicits slight to well - defined dermal irritation to rabbit skin.
 Eye contact:
 Instillation into the rabbit eye elicits a positive response according to O.E.C.D. test criteria.
 Inhalation:
 No information available.
 Ingestion:
 Acute lethal oral dose to rats: > 5.0 g/kg
 Effects of overexposure:
 Acute: Irritation, dizziness, nausea.
 Chronic: Unknown

12 Ecological information

Biodegradation: % CO₂ = 61
 Photodegradation: Not available
 Soils biodegradation:
 Half life: Approx. 15 days

O.E.C.D. method: 301 B
 N.O.E.C. (Daphnia): 7.5 µg/l
 Bioaccumulation: Log Pow > 5

The sodium sulfonate obtained in the neutralization of the sulfonic acid derived of Petrelab 550 - Q complies with biodegradation requirements laid down in the C.E. detergent regulation n° 648/2004.

13 Disposal considerations

When disposing of waste or surplus material avoid contact with eye and skin. Wear impervious gloves / overalls and safety goggles.
 Wastes can be incinerated under controlled conditions or landfilled according to official regulations (national / autonomic and / or local).
 Do not mix with strong oxidizer products.

14 Transport information

Hazard classification

Code:

IMO / IMCO:	UN:	IATA:	T.P.C. / ADR, T.P.F. / RID:
Non hazardous	Not applicable	Not applicable	Non hazardous. Not applicable.

Other data:

Transport temperature: Ambient
 Transport pressure: Atmospheric
 Loading / unloading temperature: Ambient

15 Regulatory information

Classification and labelling according to EU Directives
Classification / Symbol: Not regulated

Governing Directives:
Dangerous Substances Directive 67 / 548 / EEC and its amendments and adaptations.

16 Other information

If needed or hesitate contact PETRESA for guidance.
Additional information is available on special request.

The information given in this Safety Data Sheet is based on the knowledge that PETRESA has about the product. In order to elaborate it, the necessary analyses have been carried out and all the available information has been compiled.

PETRESA declines all responsibilities if the product is used in an unsuitable way.

Should you need any other information, please contact PETRESA.