

Safety Data Sheet

Crude oil Peregrino

Replaces date: 04/02/2016

Revision date: 17/08/2018

Version: 3.2.0

SECTION 1: Identification of the substance/preparation and of the company/undertaking

1.1. Product identifier

Trade name: Crude oil Peregrino

Other Information: Exempted from REACH registration according to REACH Annex V.

Article no

Article no	Description
-	

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

Recommended uses: Drilling and production operations. Manufacture of substances (ERC1).

Inadvisable uses: None.

1.3. Details of the supplier of the safety data sheet

Supplier

Company: Equinor ASA (Site: Peregrino Brazil)

Address: Forusbeen 50

Zip code: 4035

City: Stavanger

Country: NORWAY

E-mail: chem@equinor.com

Phone: +55 21 3479-9800

1.4. Emergency Telephone Number

Members of the public: 111 (NHS 111 (Scotland: NHS 24)) The emergency telephone is open 24 hours.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP-classification: Asp. Tox. 1;H304 Skin Irrit. 2;H315 Eye Irrit. 2;H319 STOT SE 3;H336 STOT RE 1;H372 Aquatic Chronic 2;H411

Most serious harmful effects: May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. Causes damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.

2.2. Label elements

Pictograms

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Signal word: Danger

Contains

Substance: Crude oil, petroleum

H-phrases

H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H372 Causes damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

P-phrases

P233 Keep container tightly closed.
P301/310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331 Do NOT induce vomiting.
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501 Dispose of contents/container in accordance with local regulation.

2.3. Other hazards

Assessment to determine PBT and vPvB has not been made.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	CAS number	EC No	REACH Reg. No.	Concentration	Notes	CLP-classification
Crude oil, petroleum	8002-05-9	232-298-5		100 %		Asp. Tox. 1;H304 Skin Irrit. 2;H315 Eye Irrit. 2;H319 STOT SE 3;H336 STOT RE 1;H372 Aquatic Chronic 2;H411
sulfur	7704-34-9	231-722-6		1.80 %		Skin Irrit. 2;H315
n-hexane	110-54-3	203-777-6		< 0.7%		Flam. Liq. 2;H225 Asp. Tox. 1;H304 Skin Irrit. 2;H315 STOT SE 3;H336 Repr. 2;H361f STOT RE 2;H373 Aquatic Chronic 2;H411
benzene	71-43-2	200-753-7		< 0.04%		Flam. Liq. 2;H225 Asp. Tox. 1;H304 Skin Irrit. 2;H315 Eye Irrit. 2;H319 Muta. 1B;H340 Carc. 1A;H350 STOT RE 1;H372

Please see section 16 for the full text of H-phrases.

Ingredient comments: 8002-05-9, Petroleum: Exempted from REACH registration according to REACH Annex V.

SECTION 4: First aid measures

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4.1. Description of first aid measures

Inhalation:	Seek fresh air. Seek medical advice in case of persistent discomfort.
Ingestion:	Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Do not induce vomiting. If vomiting occurs, keep head low so that stomach contents do not enter lungs. Immediately call a POISON CENTER or doctor/physician.
Skin contact:	Remove contaminated clothing. Wash skin with soap and water. Seek medical advice in case of persistent discomfort.
Eye contact:	Flush immediately with water (preferably using eye wash equipment) for at least 5 minutes. Open eye wide. Remove any contact lenses. Seek medical advice.
Burns:	Flush with water until pain ceases. Remove clothing that is not stuck to the skin - seek medical advice/transport to hospital. If possible, continue flushing until medical attention is obtained.
General:	When obtaining medical advice, show the safety data sheet or label.

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

Causes damage to organs through prolonged or repeated exposure. The product releases organic solvent vapours. At high concentrations, the vapours may cause headache, dizziness, intoxication and possible unconsciousness. Irritating to skin - may cause reddening. Irritating to eyes. Causes a burning sensation and tearing. May cause chemical pneumonia if ingested or vomited.

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

In case of shortness of breath, give oxygen. Treat symptoms. Ensure that medical personnel are aware of the material involved, and take precautions to protect themselves.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media: Extinguish with powder, foam or water mist. Use water or water mist to cool non-ignited stock.

Unsuitable extinguishing media: Do not use water stream, as it may spread the fire.

5.2. Special hazards arising from the substance or mixture

The product decomposes when combusted and the following toxic gases can be formed: Carbon monoxide and carbon dioxide/hydrogen sulphide.

5.3. Advice for fire-fighters

Wear Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit. Move containers from danger area if it can be done without risk. Avoid inhalation of vapour and flue gases - seek fresh air.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Stop leak if this can be done without risk. Smoking and naked flames prohibited. Wear gloves. Stay upwind/keep distance from source. Keep unnecessary personnel away. Provide good ventilation.

For emergency responders: In addition to the above: Protective suit equivalent to EN 368, type 3, is recommended.

6.2. Environmental precautions

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Prevent spillage from entering drains and/or surface water. Notify proper authorities in case of contamination of soil or aquatic environment or discharge to drains.

6.3. Methods and material for containment and cleaning up

Contain and absorb spill with sand or other absorbent, non-combustible material and transfer to suitable waste containers. Wipe up minor spills with a cloth.

6.4. Reference to other sections

See section 8 for type of protective equipment. See section 13 for instructions on disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Running water and eye wash equipment must be available. Smoking and naked flames prohibited. Work under effective process ventilation (e.g. local exhaust ventilation). Wash hands before breaks, before using restroom facilities, and at the end of work.

7.2. Conditions for safe storage, including any incompatibilities

Store safely, out of reach of children and away from food, animal feeding stuffs, medicines, etc. Keep in tightly closed original packaging. Store in a well-ventilated area. Do not store with the following: Strong oxidisers.

7.3. Specific end use(s)

None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit

Substance name	Time period	ppm	mg/m3	fiber/cm3	Comments	Remarks
n-hexane	8h	20	72			
n-hexane	15m					
benzene	8h	1	3.25			Carc, Sk
benzene	15m					Carc, Sk

Carc = Capable of causing cancer and/or heritable genetic damage

Sk = Can be absorbed through skin

Measuring methods: Compliance with the stated occupational exposure limits may be checked by occupational hygiene measurements.

Legal basis: EH40/2005 Workplace exposure limits. Last amended December 2011.

Biological threshold values: None.

8.2. Exposure controls

Appropriate engineering controls: Wear the personal protective equipment specified below.

Personal protective equipment, eye/face protection: Wear safety goggles. Eye protection must conform to EN 166.

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Personal protective equipment, hand protection: Light use (small volume, shortterm contact (below 10 min.)): Use disposable gloves of nitrile rubber. Change gloves immediately if contaminated, and wash hands with soap and water.

Medium use (medium volume, medium contact (1-2 hours)): Use protective gloves of: Nitrile rubber. Wear coveralls.

Heavy use (high volume, longterm contact (more than 2 hours)): Use disposable gloves of nitrile rubber. Wear coveralls.

Breakthrough time has not been determined for the product. Change gloves often. Gloves must conform to EN 374.

Personal protective equipment, respiratory protection: Light use (small volume, shortterm contact (below 10 min.)): Not required.

Medium use (medium volume, medium contact (1-2 hours)): In case of insufficient ventilation, wear respiratory protective equipment. Filter type: A.

Heavy use (high volume, longterm contact (more than 2 hours)): In case of insufficient ventilation, wear respiratory protective equipment. Filter type: A.

Respiratory protection must conform to one of the following standards: EN 136/140/145.

Environmental exposure controls: Ensure compliance with local regulations for emissions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Parameter	Value/unit
State	Liquid
Colour	Dark brown
Odour	Characteristic
Solubility	Not miscible with the following: Water.
Explosive properties	N/A
Oxidising properties	N/A

Parameter	Value/unit	Remarks
pH (solution for use)	No data	
pH (concentrate)	No data	
Melting point	No data	
Freezing point	No data	
Initial boiling point and boiling range	300 °C	
Flash Point	81 °C	
Evaporation rate	No data	
Flammability (solid, gas)		Flammable
Flammability limits	No data	
Explosion limits	No data	
Vapour pressure	< 0.50 psi	
Vapour density	No data	
Relative density	No data	
Partition coefficient n-octanol/water	No data	
Auto-ignition temperature	No data	
Decomposition temperature	No data	

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Viscosity	2200 cSt	(50 °C)
Odour threshold	No data	

9.2 Other information

Parameter	Value/unit	Remarks
Density	0.9750 g/cm ³	

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with the following: Strong oxidisers.

10.2. Chemical stability

The product is stable when used in accordance with the supplier's directions.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Avoid heating and contact with ignition sources.

10.5. Incompatible materials

Strong oxidisers.

10.6. Hazardous decomposition products

The product decomposes when combusted or heated to high temperatures and the following toxic gases can be formed: Carbon monoxide and carbon dioxide/ hydrogen sulphide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral:	Ingestion may cause discomfort. The product does not have to be classified. Test data are not available.
Acute toxicity - dermal:	The product does not have to be classified. Test data are not available.
Acute toxicity - inhalation:	The product does not have to be classified. Test data are not available.
Skin corrosion/irritation:	Irritating to skin - may cause reddening. Degreases and dries the skin. Repeated exposure may cause skin dryness or cracking.
Serious eye damage/eye irritation:	Irritating to eyes. Causes a burning sensation and tearing.
Respiratory sensitisation or skin sensitisation:	The product does not have to be classified. Test data are not available.
Germ cell mutagenicity:	The product does not have to be classified. Test data are not unequivocal.
Carcinogenic properties:	The product does not have to be classified. Test data are not available.

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Reproductive toxicity:	The product contains at least one substance which is a suspected reproductive hazard. The product does not have to be classified. Test data are not available.
Single STOT exposure:	The product releases organic solvent vapours which may cause lethargy and dizziness. At high concentrations, the vapours may cause headache and intoxication.
Repeated STOT exposure:	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard:	May cause chemical pneumonia if ingested or vomited.
Other toxicological effects:	None known.

SECTION 12: Ecological information

12.1. Toxicity

Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

The product contains at least one substance which is insoluble in water, and it will therefore disperse on the water surface. Not expected to be biodegradable.

12.3. Bioaccumulative potential

Test data are not available.

12.4. Mobility in soil

Test data are not available.

12.5. Results of PBT and vPvB assessment

No assessment has been made.

12.6. Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Avoid discharge to drain or surface water. Collect spills and waste in closed, leak-proof containers for disposal at the local hazardous waste site.

EWC code: Depends on line of business and use, for instance 16 07 08* wastes containing oil

15 02 02* absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing

Uncleansed packaging is to be disposed of via the local waste-removal scheme.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN-No.:

3082

14.4. Packing group:

III

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14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Crude oil, petroleum)

14.5. Environmental hazards: The product must be labelled as an environmental hazard (symbol: fish and tree) in packaging sizes of more than 5 kg/l.

14.3. Transport hazard class(es): 9
Hazard label(s): 9
Hazard identification number: 90

Tunnel restriction code: -

Inland water ways transport (ADN)

14.1. UN-No.: 3082

14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Crude oil, petroleum)

14.3. Transport hazard class(es): 9
Hazard label(s): 9
Transport in tank vessels:

14.4. Packing group: III

14.5. Environmental hazards: The product must be labelled as an environmental hazard (symbol: fish and tree) in packaging sizes of more than 5 kg/l.

Sea transport (IMDG)

14.1. UN-No.: 3082

14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Crude oil, petroleum)

14.3. Transport hazard class(es): 9
Hazard label(s): 9
EmS: F-A, S-F

14.4. Packing group: III

14.5. Environmental hazards: The product must be labelled as a Marine Pollutant (MP) in packaging sizes of more than 5 kg/l.

Environmental Hazardous Substance Name(s): Crude oil, petroleum

IMDG Code segregation group: - None -

Air transport (ICAO-TI / IATA-DGR)

14.1. UN-No.: 3082

14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Crude oil, petroleum)

14.3. Transport hazard class(es): 9
Hazard label(s): 9

14.4. Packing group: III

14.5. Environmental hazards: The product must be labelled as an environmental hazard (symbol: fish and tree) in packaging sizes of more than 5 kg/l.

14.6. Special precautions for user

None.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable.

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SECTION 15: Regulatory information

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

Special Provisions: Special care should be applied for employees under the age of 18. Young people under the age of 18 may not carry out any work causing harmful exposure to this product.

Directive 2012/18/EU (Seveso), E2 Hazardous to the Aquatic Environment in Category Chronic 2 : Column 2: 200 t, Column 3: 500 t.

Covered by:
Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

15.2. Chemical Safety Assessment

Other Information: Chemical safety assessment has not been performed.

SECTION 16: Other information

Version history and indication of changes

Version	Revision date	Responsible	Changes
3.0.0	04/02/2016	CGJ/Bureau Veritas HSE Denmark A/S	1,2,3,6,7,8,9,10,11,12,13,14, 15,16
3.1.0	29/03/2016	CGJ/Bureau Veritas HSE Denmark A/S	1,3,8,16
3.2.0	17/08/2018	Bureau Veritas HSE/ SRU	1, 16

Abbreviations: PBT: Persistent, Bioaccumulative and Toxic
vPvB: Very Persistent and Very Bioaccumulative
STOT: Specific Target Organ Toxicity

Other Information: This safety data sheet has been prepared for and applies to this product only. It is based on our current knowledge and the information that the supplier was able to provide about the product at the time of preparation. The safety data sheet complies with applicable law on preparation of safety data sheets in accordance with 1907/2006/EC (REACH) as subsequently changed.

Training advice: A thorough knowledge of this safety data sheet should be a prerequisite condition.

Classification method: Calculation based on the hazards of the known components.

List of relevant H-statements

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H350	May cause cancer.
H361f	Suspected of damaging fertility.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

Quality assurance of SDS: Bureau Veritas HSE Danmark / SRU

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