

Safety Data Sheet

JET A1

Replaces date: 16-03-2011

Revision date: 18-11-2015

Version: 2.0.0

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

1.1. Product identifier

Trade name: JET A1

Substance name: Kerosine (petroleum)

Other Information: Substance name Kerosine (petroleum) CAS No. 8008-20-6 EC No. 232-366-4 INDEX no. 649-404-00-4 Reg. no. 01-2119485517-27-0014

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

Recommended uses: Surface treatment Additive for cleaning agents. Lubricant Release agents and binders. Agrochemicals. Fuel. Functional fluids. Road and construction. Explosives.

Inadvisable uses: None.

1.3. Details of the supplier of the safety data sheet

Supplier

Company: Statoil ASA (OTS)

Address: Forusbeen 50

Zip code: 4035 Stavanger

Country: NORWAY

E-mail: Statoil chemical competence center: chem@statoil.com

Phone: +47 51 99 00 00

1.4. Emergency Telephone Number

+ 47 22 591300 (Norway Poisons Information (NO))

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP-classification: Flam. Liq. 3;H226 Asp. Tox. 1;H304 Skin Irrit. 2;H315 STOT SE 3;H336 Aquatic Chronic 2;H411

Most serious harmful effects: Flammable liquid and vapour. May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects. May cause chemical pneumonia if ingested or vomited. Prolonged or repeated inhalation of vapours may cause damage to the central nervous system.

2.2. Label elements

Pictograms

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Signal word: Danger

Contains

Substance: Kerosine (petroleum)

CAS No: 8008-20-6

H-phrases

H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

P-phrases

P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301/310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P501 Dispose of contents/container in accordance with local regulation.
P331 Do NOT induce vomiting.

2.3. Other hazards

The substance does not meet the criteria for PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance	CAS number	EC No	REACH Reg. No.	Concentration	Notes	CLP-classification
Kerosine (petroleum)	8008-20-6	232-366-4	01-2119485517-27-0014	100 %		Flam. Liq. 3;H226 Asp. Tox. 1;H304 Skin Irrit. 2;H315 STOT SE 3;H336 Aquatic Chronic 2;H411

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

SECTION 4: First aid measures

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.

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Skin contact:	Remove contaminated clothing. Wash skin with soap and water. Seek medical advice in case of persistent discomfort.
Eye contact:	Flush with water (preferably using eye wash equipment) until irritation subsides. Seek medical advice if symptoms persist.
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:	Other information: When obtaining medical advice, show the safety data sheet or label.

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

Irritating to skin - may cause reddening. May cause chemical pneumonia if ingested or vomited. The product releases organic solvent vapours which may cause lethargy and

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

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, carbon dioxide 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

Explosive mixtures may form with air when heated/exposed to fire. Heating will cause a rise in pressure in packaging with a risk of bursting. Can generate harmful flue gases containing carbon monoxide in the event of fire.

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. 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

Prevent spillage from entering drains and/or surface water. Notify proper authorities in case of

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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.

6.4. Reference to other sections

See section 13 for instructions on disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Work under effective process ventilation (e.g. local exhaust ventilation). Running water and eye wash equipment must be available. Smoking and naked flames prohibited. 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.

7.3. Specific end use(s)

None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit: Contains no substances subject to reporting requirements

Legal basis: EH40/2005 Workplace exposure limits incl. supplement from October 2007.

Biological threshold values: DNEL values: 8008-20-6:
Population in general:
Oral DNEL (long-term exposure - systemic effects), 19 mg/kg/24 h, Assessment factor 40,
Dose
descriptor NOAEL, Most sensitive endpoint Repeated dose toxicity PNEC values: 8008-20-6:
PNEC aqua (freshwater) 0,098 mg/l, Assessment factor: 1

Other Information: Contains no substances subject to reporting requirements.

8.2. Exposure controls

Exposure controls: See enclosed exposure scenarios for further information.

Appropriate engineering controls: Wear the personal protective equipment specified below. See also section 7.1.

Personal protective equipment, eye/face protection: Wear safety goggles if there is a risk of eye splash. Eye protection must conform to EN 166.

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Personal protective equipment, skin protection: In case of direct skin contact, wear protective gloves of e.g. nitrile rubber. Penetration time: >4 hours. Gloves must conform to EN 374.

Personal protective equipment, hand protection: In case of direct skin contact, wear protective gloves of e.g. nitrile rubber. Penetration time: >4 hours. 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 with filter A. Heavy use (high volume, longterm contact (more than 2 hours)): In case of insufficient ventilation, wear respiratory protective equipment with filter 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	Colourless
Odour	Characteristic
Solubility	N/A
Explosive properties	N/A
Oxidising properties	Non-oxidising.

Parameter	Value/unit	Remarks
pH (solution for use)		N/A
pH (concentrate)		N/A
Melting point	-20 < °C	
Freezing point	No data	
Initial boiling point and boiling range	150 - 290 °C	
Flash Point	38 - 51 °C	
Evaporation rate		N/A
Flammability (solid, gas)		Flammable
Flammability limits		N/A
Explosion limits		N/A
Vapour pressure	1 - 21 kPa	(37,8 °C)
Vapour density		N/A
Relative density	0.75 - 0.86	(15 °C)
Partition coefficient n-octanol/water		N/A
Auto-ignition temperature	220 > °C	
Decomposition temperature		N/A
Viscosity	1 - 2.50 cSt	(40 °C)
Odour threshold		N/A

9.2 Other information

Parameter	Value/unit	Remarks
Viscosity:	2,9-12 cSt (-20 °C)	

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Other Information: None.

SECTION 10: Stability and reactivity

10.1. Reactivity

Not reactive.

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. Prevent vapour accumulation.

10.5. Incompatible materials

Avoid contact with strong oxidising agents. Avoid contact with strong reducing agents.

10.6. Hazardous decomposition products

Product decomposes in fire conditions or when heated to high temperatures, and toxic gases such as carbonmonoxide may be released.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

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Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		> 5000mg/kg			

Ingestion of large quantities may cause discomfort. The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Acute toxicity - dermal

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Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit	LC50		> 2000mg/kg			

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Acute toxicity - inhalation

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Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
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Rat	LC50	4 h	> 5200g/m ³			Vapour
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The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Skin corrosion/irritation:	Irritating to skin ζ may cause reddening. 8008-20-6: Rabbit: Irritating (EPA Guidelines ind FR Vol. 44, No. 145,pgs 44054-44093)
Serious eye damage/eye irritation:	May cause eye irritation. The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met. 8008-20-6: Rabbit: Corneal opacity: 0 (EPA OTS 798.4500)
Respiratory sensitisation or skin sensitisation:	The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met. 8008-20-6: Guinea pig: Non-sensitising (OECD 406)
Germ cell mutagenicity:	The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met. 8008-20-6: No mutagenic effects observed in tests with micro organisms, mammalian cells, and in vivo tests.
Carcinogenic properties:	The product does not have to be classified. Test data are not unequivocal. 8008-20-6: Mouse: Neoplastic effects observed.
Reproductive toxicity:	The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met. 8008-20-6: Rat, $\geq 1000\text{mg}/\text{m}^3$: NOAEC (inhalation)
Single STOT exposure:	Inhalation of vapours may cause irritation to the upper airways. The product releases organic solvent vapours which may cause lethargy and dizziness. At high concentrations, the vapours may cause headache and intoxication. Test data are not available.
Repeated STOT exposure:	Prolonged or repeated inhalation of vapours may cause damage to the central nervous system. The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met. 8008-20-6: Rat, $24\text{mg}/\text{m}^3$: NOAEC (inhalation) (OECD 412)
Aspiration hazard:	May cause chemical pneumonia if ingested or vomited. Test data are not available.
Other toxicological effects:	None known.

SECTION 12: Ecological information

12.1. Toxicity

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Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Acute fish	Oncorhynchus mykiss	96 h	LC50	2 - 5mg/l		Acute toxicity	
Acute Daphnia	Daphnia magna	48 h	EC50	1.40 mg/l		Acute toxicity	
Acute algae		72 h	EC50	1 - 3mg/l		Acute toxicity	

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Acute fish	Oncorhynchus mykiss		LC50	0.0980 mg/l		Chronic toxicity	
Acute Daphnia	Daphnia magna	21 d	EC50	0.89 mg/l		Chronic toxicity	

Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

Readily biodegradable.

8008-20-6: Readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulation can be expected. Test data are not available.

12.4. Mobility in soil

The product is predicted to have low mobility in soil and sediment.

12.5. Results of PBT and vPvB assessment

The substance does not meet the criteria for PBT or vPvB.

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.

Category of waste:

EWC code: Depends on line of business and use, for instance 13 07 03 other fuels (including

mixtures) Absorbent/cloth contaminated with the product:

EWC code: 15 02 02 absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN-No.: 1223

14.2. UN proper shipping name:

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.

14.3. Transport hazard class(es): 3

Hazard label(s):

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Hazard identification number: Tunnel restriction code: D/E
Other Information:

Inland water ways transport (ADN)

14.1. UN-No.:	1223	14.4. Packing group:	III
14.2. UN proper shipping name:	KEROSENE	14.5. Environmental hazards:	yes
14.3. Transport hazard class(es):	3		
Hazard label(s):			
Environmentally hazardous in tank vessels:	N2+F	Other Information:	

Sea transport (IMDG)

14.1. UN-No.:	1223	14.4. Packing group:	III
14.2. UN proper shipping name:	KEROSENE	14.5. Environmental hazards:	The product must be labelled as a Marine Pollutant (MP) in packaging sizes of more than 5 kg/l.
14.3. Transport hazard class(es):	III	Environmental Hazardous Substance Name(s):	
Hazard label(s):		IMDG Code segregation group:	
EmS:			
Other Information:			

Air transport (ICAO-TI / IATA-DGR)

14.1. UN-No.:	III	14.4. Packing group:	III
14.2. UN proper shipping name:	KEROSENE	14.5. Environmental hazards:	
14.3. Transport hazard class(es):	III		
Hazard label(s):		Other Information:	

14.6. Special precautions for user

None.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC code

Not included.

SECTION 15: Regulatory information

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

Special Provisions: None.

15.2. Chemical Safety Assessment

Other Information: Chemical safety assessments have been performed for the following substances:
8008-20-6 / 232-366-4 Kerosine (petroleum)

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SECTION 16: Other information

Version history and indication of changes

Version	Revision date	Responsible	Changes
2.0.0	18-11-2015	CGJ/Bureau Veritas HSE Denmark A/S	1,2,3,9,16

Abbreviations:

PBT: Persistent, Bioaccumulative and Toxic
vPvB: Very Persistent and Very Bioaccumulative
DNEL: Derived No Effect Level
PNEC: Predicted No Effect Concentration
STOT: Specific Target Organ Toxicity

Other Information:

Other information: Exposure scenarios are enclosed as appendices. Version: 01.00/GBR

Training advice:

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

Classification method:

Test data

List of relevant H-statements

H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

Document language:

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