



Safety Data Sheet

SDS has been prepared in accordance with Regulation (EC) No. 453/2010

This Safety Data Sheet is written in reference to a sealed glass ampoule containing 10ml of the product named below.

Section 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Substance name: Jet A-1

Synonyms:

Kerosene

Product type:

Liquid density standard

Date revised: Jun 2022

Previous: Feb 2020

EC No: 208-759-1

CAS No.: 64742-47-8

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

Relevant identified uses: For use in the calibration of density meters.

1.3 Details of the supplier of the Safety Data Sheet

Company:

H&D Fitzgerald Ltd.

Address:

Cefn Du, Tremeirchion, St Asaph, Denbighshire, LL17 0US, UK

Telephone #:

+44 (0)1352 720 774

Email address:

admin@density.co.uk

1.4 Emergency telephone number

+44 (0)1352 720 774

Section 2 Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No1272/2008 [CLP]:

Flammable liquids (Category 3), H226

Aspiration hazard (Category 1), H304

Skin irritation (Category 2), H315

Specific target organ toxicity - single exposure (Category 3), H336

Hazardous to the aquatic environment (Category 2), H411

For the full text of the H-Statements mentioned in this Section, see Section 16

2.2 Label elements

Pictogram:



Signal word:

Danger

Hazard statement(s):

H226

Highly 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.

Precautionary statement(s):

P210

Keep away from heat/sparks/open flames/hot surfaces – No smoking

P280

Wear protective gloves/protective clothing/eye protection/face protection

P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or a doctor/physician
P331	Do NOT induce vomiting
P501	Dispose of contents/ container to an approved waste disposal plant.
2.3 Other hazards	Static accumulator - Static accumulating flammable materials can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite material and vapor may cause flash fire (or explosion).

Section 3 Composition / Information on ingredients				
Substance name: Kerosine			Synonyms: Jet A-1	
C.A.S. No.	EINECS No.	Index-No. in CLP Annex IV	Classification	Concentration
91770-15-9	294-799-5	649-427-00	Flam. Liq. 3; H226, Asp. Tox. 1, H304, Skin Irrit. 2; H315, STOT SE 3; H336 Aquatic Chronic 2; H411	<= 100%
For full text of H-statements mentioned in this section, see Section 16.				

Section 4 First Aid measures	
4.1 Description of first aid measures	
General advice:	Consult a physician. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use.
Following inhalation:	Move the person into fresh air. If not breathing give artificial respiration. Consult a physician.
Following ingestion:	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water and consult a physician without delay.
Following eye contact:	Rinse thoroughly with plenty of water for at least 15 minutes. Consult a physician.
Following skin contact:	Remove contaminated clothing and shoes. Wash off with soap and plenty of water. Consult a physician.
4.2 Most important symptoms and effects, both acute and delayed	
Skin irritation. Defatting of the skin. Rash. May cause eye irritation on direct contact. Cyanosis (blue tissue condition, nails, lips and/or skin). Narcosis. Unconsciousness. Decrease in motor functions. Behavioural changes. Aspiration may cause pulmonary oedema and pneumonitis.	
4.3 Indication of any immediate medical attention and special treatment needed	
Treat symptomatically. Symptoms may be delayed.	

Section 5 Fire fighting measures	
5.1 Extinguishing media	
Extinguishing media:	Water spray. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2)
Unsuitable media:	Do not use a solid water stream as it may scatter and spread fire.
5.2 Special hazards arising from the substance or mixture	
Vapor may cause flash fire. Vapors can flow along surfaces to distant ignition source and flash back. Sensitive to static discharge.	
5.3 Advice for firefighters	
Special protective equipment for fire-fighters:	Wear protective clothing and self contained breathing apparatus.

Section 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Protective equipment: Wear safety glasses with side shields and gloves.

Personal precautions: Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition.
Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so.
Do not let product enter drains.
Discharge into the environment must be avoided.

6.3 Methods and material for containment and cleaning up

Extinguish all flames in the vicinity.
Contain spillage, and then collect with non-combustible material and place in a suitable container for disposal according to local/national regulations.
Never return spills in original containers for re-use.

6.4 Reference to other sections

For disposal see section 13.

Section 7 Handling and storage

7.1 Precautions for safe handling

Handling precautions: Avoid contact with eyes and skin. Avoid inhalation of vapour or mist.
Use personal protective equipment. Handle in accordance with good industrial hygiene and safety practise.
Keep away from sources of ignition – No smoking
For precautions see 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage precautions: Store ampoule in the outer packaging until ready to use.
Store in a cool place (less than 25°C).
Do not store the ampoule once opened, dispose of after use.

7.3 Specific end use(s)

Recommendations: Liquid density standard for calibration of density meters.

Section 8 Exposure controls and personal protection

8.1 Control parameters

Components with work place control parameters

Contains no components with occupational exposure limit values.

8.2 Exposure controls

Personal protective equipment

Respiratory protection: Use in a well ventilated area.

Eye/Face protection:	Wear safety glasses with side shields conforming to EN166.
Hand protection:	Handle with gloves conforming to EN374.
Other skin protection:	Use of protective clothing is good industrial practise.
Hygiene measures:	Handle in accordance with good industrial hygiene and safety practise. Wash hands with soap before breaks and at the end of the workday.
Environmental exposure controls	
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.	

Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties			
Appearance: Colourless, liquid	Odour: strong	Odour threshold: no data available	pH: no data available
Melting point: -47°C	Boiling point & range: 150°C-320°C	Flash point: 38°C	Evaporation rate: no data available
Flammability: Not applicable	Upper/lower flammability or explosive limits: Upper limit: 5%(V) Lower limit: 0.7%(V)	Vapour pressure: <1-3.7 kPa (37.8°C)	Relative vapour density: 5.7 (Air = 1.0)
Density of liquid: ≈ 790 kgm ⁻³ at 20°C	Solubility: insoluble	Partition coefficient: n-octanol/water Not available	Auto-ignition temperature: 220°C-250°C
Decomposition temperature: no data available	Viscosity: 1-2.4 cSt (40°C)	Explosive properties: Not explosive	Oxidising properties: Not oxidizing

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	Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions	
Hazardous reactions do not occur.	
10.4 Conditions to avoid	Heat, flames and sparks.
10.5 Incompatible materials	Strong acids and strong oxidising agents.
10.6 Hazardous decomposition products	
Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.	

Section 11 Toxicological information	
11.1 Information on toxicological effects	
Acute toxicity	LD50 Dermal -Rabbit->2000 mg/kg LC50 Inhalation-Rat->5280 mg/m ³ LD50 Oral-Rat->5000 mg/kg
Skin corrosion/irritation:	Causes skin irritation.
Serious eye damage/irritation:	Based on the available data, the classification criteria are not met.
Germ cell mutagenicity:	Based on the available data, the classification criteria are not met.
Carcinogenicity:	Based on the available data, the classification criteria are not met.
Reproductive toxicity:	Based on the available data, the classification criteria are not met.
Specific target organ toxicity – single exposure:	Based on the available data, the classification criteria are not met.
Specific target organ toxicity – repeated exposure:	Based on the available data, the classification criteria are not met.
Aspiration hazard:	May be fatal if swallowed and enters airways.

Section 12 Ecological information	
Jet Fuel is unlikely to present any ecological risk in the quantity supplied in a 10 ml ampoule.	
12.1 Toxicity	No data available
12.2 Persistence and degradability	
	No data available
12.3 Bioaccumulative potential	
	No data available
12.4 Mobility in soil	
	No data available
12.5 Results of PBT and vPvB assessment	
	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
12.6 Other adverse effects	Toxic to aquatic life with long lasting effects.

Section 13 Disposal considerations	
General requirements:	Observe all national and local environmental regulations.
Contaminated packaging:	Dispose of as unused product.

Section 14 Transport information		
UN Number 1223	UN proper shipping name Kerosene	Transport hazard class(es) 3
Environmental hazards Yes	EMS-No: F-E, S-E	Packing group Packing group III

Section 15 Regulatory information	
15.1 Safety health and environmental regulations/legislation specific for the substance or mixture	
	This safety data sheet complies with the requirements of Regulation (EC) No. 453/2010.
15.2 Chemical safety assessment	
	No chemical assessment has been carried out for this substance by the supplier.

Section 16 Other information

Text of H-code(s) mentioned in Section 2 & 3

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.

Reason for revision: Updated to comply with Regulation (EC) No. 453/2010

Disclaimer

H&D Fitzgerald believes that data given here is accurate. It is derived from published information about Jet A-1. No warranty, expressed or implied, is intended. The data is provided for your information and consideration when using Jet A-1 as a liquid density standard for the calibration of density meters. H&D Fitzgerald assumes no legal responsibility for its use.