

SAFETY DATA SHEET

Jet Fuel, Certified Reference Materials, CRM-ABKR01, CRM-DEKR01, CRM-DIKR01, CRM-FRKR01, CRM-TAKR01, CRM-SPKR01

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

1.1. Product identifier Trade name Jet Fuel, Certified Reference Materials, CRM-ABKR01, CRM-DEKR01, CRM-DIKR01, CRM-FRKR01, CRM-TAKR01, CRM-SPKR01 Product no. CRM-ABKR01, CRM-DEKR01, CRM-DIKR01, CRM-FRKR01, CRM-TAKR01, CRM-SPKR01 1.2. Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses of the substance or mixture Laboratory use Restricted to professional users. Uses advised against None known. 1.3. Details of the supplier of the safety data sheet Company and address **ARO Scientific Ltd** Unit 1 Bridgeway Business Park, **Ditton Road** WA8 0QE Widnes England +44 (0)151 424 2828 Contact person **Technical Help** E-mail technical@aroscientific.com Revision 06/10/2023 SDS Version 1.0 1.4. Emergency telephone number Contact The National Poisons Information Service (dial 111, 24 h service). See section 4 "First aid measures". SECTION 2: Hazards identification

Classified according to Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

2.1. Classification of the substance or mixture

Asp. Tox. 1; H304, May be fatal if swallowed and enters airways. Skin Irrit. 2; H315, Causes skin irritation. STOT SE 3; H336, May cause drowsiness or dizziness. Aquatic Chronic 2; H411, Toxic to aquatic life with long lasting effects. 2.2. Label elements

2.2. Label elements



Signal word



Hazard statement(s)				
NAL LUCK LUC 11				
	owed and enters airways. (I	1304)		
Causes skin irritatio				
	ess or dizziness. (H336)			
•	with long lasting effects. (H	411)		
Precautionary stateme	nt(s)			
General				
-				
Prevention				
	exposed skin thoroughly af			
, ,	ion/protective gloves. (P280)		
Response				
	mmediately call a POISON (CENTER/doctor. (P3	01+P310)	
Do NOT induce vo	omiting. (P331)			
Storage				
	ntilated place. Keep contain	er tightly closed. (P	403+P233)	
Disposal				
	nts/container in accordance	with local regulation	n	
(P501)				
Hazardous substances				
			n of hydrocarbons produced by th	
	ange of approximately 150 °		redominantly in the range of C9 th	rougn CT6
_	ange of approximately 150	C to 290 °C (320 °F	10 554 ⁻ F).]	
Additional labelling Not applicable.				
2.3. Other hazards				
Additional warnings				
and/or vPvB.	ct does not contain any sub	stances considered	to meet the criteria classifying the	em as PBT
	ot contain any substances (onsidered to be en	docrine disruptors in accordance v	
				with tha
		alion (FU) /01 /// IU	0 or Commission Regulation (FU) (
	5 5	ation (EO) 2017/210	0 or Commission Regulation (EU)	
	/information on ingredients		0 or Commission Regulation (EU)	
SECTION 3: Composition	/information on ingredients		0 or Commission Regulation (EU)	
SECTION 3: Composition 3.1. Substances Not applicable. This pro	/information on ingredients		0 or Commission Regulation (EU)	
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SECTION 3: Composition 3.1. Substances Not applicable. This pro 3.2. Mixtures	/information on ingredients oduct is a mixture. Identifiers			2018/605.
SECTION 3: Composition, 8.1. Substances Not applicable. This pro 8.2. Mixtures oduct/substance rosine (petroleum);Straight	/information on ingredients oduct is a mixture. Identifiers	% w/w	Classification	2018/605. Not
SECTION 3: Composition 3.1. Substances Not applicable. This pro 3.2. Mixtures oduct/substance rosine (petroleum);Straight h kerosine;[A complex mbination of hydrocarbons	/information on ingredients oduct is a mixture. Identifiers CAS No.: 8008-20-6 EC No.: 232-366-4 UK-REACH:	% w/w	Classification Asp. Tox. 1, H304	2018/605. Not
SECTION 3: Composition 3.1. Substances Not applicable. This pro 3.2. Mixtures oduct/substance rosine (petroleum);Straight n kerosine;[A complex mbination of hydrocarbons oduced by the distillation of	/information on ingredients oduct is a mixture. Identifiers CAS No.: 8008-20-6 EC No.: 232-366-4 UK-REACH:	% w/w	Classification Asp. Tox. 1, H304 Skin Irrit. 2, H315	2018/605. Not
SECTION 3: Composition 3.1. Substances Not applicable. This pro 3.2. Mixtures oduct/substance prosine (petroleum);Straight n kerosine;[A complex mbination of hydrocarbons oduced by the distillation of ude oil. It consists of	/information on ingredients oduct is a mixture. Identifiers CAS No.: 8008-20-6 EC No.: 232-366-4 UK-REACH:	% w/w	Classification Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336	2018/605. Not
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CAS No.: 111-77-3	<0.25%	Repr. 2, H361	[1], [3]
EC No.: 203-906-6			
UK-REACH:			
Index No.: 603-107-00-6			
	EC No.: 203-906-6 UK-REACH:	EC No.: 203-906-6 UK-REACH:	EC No.: 203-906-6 UK-REACH:

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.



Other information

[1] European occupational exposure limit.

[3] According to UK REACH, Annex XVII, the substance is subject to restrictions.

[19] UVCB = Unknown or variable composition, complex reaction products or of biological materials

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

Eye contact

If in eyes: Flush eyes with water or saline water (20-30 °C) for at least 5 minutes. Remove contact lenses. Seek medical assistance and continue flushing during transport.

Ingestion

IF SWALLOWED: Immediately call a POISON CENTER/doctor.

Do not induce vomiting! If vomiting occurs, keep head facing down so that vomit does not get into the lungs. Call a doctor or ambulance. Symptoms of chemical pneumonia can appear after several hours. People who have swallowed the product should therefore be kept under medical attention for at least 48 hours.

Burns

Not applicable.

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

This product contains substances that can cause chemical pneumonia if swallowed. Symptoms of chemical pneumonia may appear after several hours.

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

IF exposed or concerned:

Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist. Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice. Hazchem Code: 3Y

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances. Ensure adequate ventilation, especially in confined areas. Avoid inhalation of vapours from spilled material.



6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

It is recommended to install waste collection trays in order to prevent emissions to the waste water system and surrounding environment.

Avoid direct contact with the product.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Recommended storage material

Always store in containers of the same material as the original container.

Storage temperature

No specific requirements

Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether; diethylene glycol monomethyl ether Long term exposure limit (8 hours) (ppm): 10

Long term exposure limit (8 hours) (mg/m³): 50.1

Annotations:

Sk = Can be absorbed through the skin and lead to systemic toxicity.

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002. EH40/2005 Workplace exposure limits (Fourth Edition 2020).

DNEL

2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether; diethylene glycol monomethyl ether

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	1.33 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	2.22 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	30.1 mg/m ³
Long term – Systemic effects - Workers	Inhalation	50.1 mg/m ³
Long term – Systemic effects - General population	Oral	7.5 mg/kg bw/day

PNEC

2-(2-methoxyethoxy)ethanol; diethylene glycol monom	nethyl ether;diethylene glycol monome	thyl ether
Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		12 mg/L
Freshwater sediment		44.4 mg/kg



Intermittent release (freshwater)	12 mg/L
Marine water	1.2 mg/L
Marine water sediment	440 μg/kg
Predators	90 mg/kg
Sewage treatment plant	10 g/L
Soil	2.1 mg/kg

8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis. General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios

There are no exposure scenarios implemented for this product.

Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.

Apply standard precautions during use of the product. Avoid inhalation of vapours.

Hygiene measures

Take off contaminated clothing and wash it before reuse.

Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally

No specific requirements

Respiratory Equipment

No specific requirements

Skin protection

No specific requirements.

Hand protection

No specific requirements.

Eye protection

No specific requirements.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

Testing not relevant or not possible due to the nature of the product.

Odour / Odour threshold

Testing not relevant or not possible due to the nature of the product. pH

Testing not relevant or not possible due to the nature of the product. Density (g/cm³)

Testing not relevant or not possible due to the nature of the product. Kinematic viscosity

Testing not relevant or not possible due to the nature of the product.

Particle characteristics

Does not apply to liquids.

Phase changes

Melting point/Freezing point (°C)

Testing not relevant or not possible due to the nature of the product.



Softening point/range (waxes and pastes) (°C) Does not apply to liquids.
Boiling point (°C) Testing not relevant or not possible due to the nature of the product.
Vapour pressure
Testing not relevant or not possible due to the nature of the product.
Relative vapour density
Testing not relevant or not possible due to the nature of the product. Decomposition temperature (°C)
Testing not relevant or not possible due to the nature of the product.
Data on fire and explosion hazards
Flash point (°C)
Testing not relevant or not possible due to the nature of the product.
Flammability (°C) Testing not relevant or not possible due to the nature of the product.
Auto-ignition temperature (°C)
Testing not relevant or not possible due to the nature of the product.
Lower and upper explosion limit (% v/v) Testing not relevant or not possible due to the nature of the product.
Solubility
Solubility in water
Testing not relevant or not possible due to the nature of the product.
n-octanol/water coefficient
Testing not relevant or not possible due to the nature of the product. Solubility in fat (g/L)
Testing not relevant or not possible due to the nature of the product.
9.2. Other information
Oxidizing properties
Testing not relevant or not possible due to the nature of the product.
Other physical and chemical parameters No data available.
SECTION 10: Stability and reactivity
10.1. Reactivity
No data available.
10.2. Chemical stability
The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

- None known.
- 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 as retained and amended in UK law Acute toxicity

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

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

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

Respiratory sensitisation



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

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

Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

STOT-single exposure

May cause drowsiness or dizziness.

STOT-repeated exposure

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

Aspiration hazard

May be fatal if swallowed and enters airways.

11.2. Information on other hazards

Long term effects

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure. Endocrine disrupting properties

This mixture/product does not contain any substances considered to have hormone-disrupting properties in relation to health.

Other information

None known.

SECTION 12: Ecological information

12.1. Toxicity

Toxic to aquatic life with long lasting effects.

- 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 mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

12.6. Endocrine disrupting properties

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

12.7. Other adverse effects

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.

This product contains substances, which may cause adverse long-term effects to the aquatic environment.

SECTION 13: Disposal considerations

Waste treatment methods Product is covered by the regulations on hazardous waste. HP 4 - Irritant (skin irritation and eye damage) HP 14 - Ecotoxic Dispose of contents/container to an approved waste disposal plant. Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law. EWC code Not applicable. Specific labelling Contaminated packing



SECTION 14: Transport information

According to REACH Regulation (EC) No 1907/2006, as retained and amended SI 2019/758 and SI 2020/1577

Packaging containing residues of the product must be disposed of similarly to the product.

14.3 14.4 14.5 Other 14.1 14.2 Hazard class(es) UN / ID UN proper shipping name PG* Env** information: UN1863 FUEL, AVIATION, TURBINE ENGINE Limited ADR Transport hazard class: 3 III Yes Label: 3 quantities: 5 L Classification code: F1 Tunnel restriction code: (D/E) See below for additional information. IMDG UN1863 FUEL, AVIATION, TURBINE ENGINE Transport hazard class: 3 III Yes Limited Label: 3 quantities: 5 L Classification code: F1 EmS: F-E S-E See below for additional information. UN1863 FUEL, AVIATION, TURBINE ENGINE See below for IATA Transport hazard class: 3 Ш Yes Label: 3 additional Classification code: F1 information. * Packing group ** Environmental hazards Additional information ADR / See Table A, Section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport. IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport. IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport. This product is within scope of the regulations of transport of dangerous goods. Hazchem Code: 3Y 14.6. Special precautions for user Not applicable. 14.7. Maritime transport in bulk according to IMO instruments No data available. SECTION 15: Regulatory information

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



Restricted to professional users.

Demands for specific education

No specific requirements.

SEVESO - Categories / dangerous substances

E2 - ENVIRONMENTAL HAZARDS, Qualifying quantity (lower-tier): 200 tonnes / (upper-tier): 500 tonnes

UK-REACH, Annex XVII

2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether; diethylene glycol monomethyl ether is subject to restrictions, UK-REACH annex XVII (entry 54).

Additional information

Not applicable.

Sources

Control of Major Accident Hazards (COMAH) Regulations 2015.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law.

Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

H304, May be fatal if swallowed and enters airways.

H315, Causes skin irritation.

- H336, May cause drowsiness or dizziness.
- H361, Suspected of damaging fertility or the unborn child.

H411, Toxic to aquatic life with long lasting effects.

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CE = Conformité Européenne (European conformity)

- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- CSA = Chemical Safety Assessment
- CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EINECS = European Inventory of Existing Commercial chemical Substances

ES = Exposure Scenario

EUH statement = CLP-specific Hazard statement

EuPCS = European Product Categorisation System

EWC = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IARC = International Agency for Research on Cancer (IARC)

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

OECD = Organisation for Economic Co-operation and Development

PBT = Persistent, Bioaccumulative and Toxic

PNEC = Predicted No Effect Concentration

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SCL = A specific concentration limit

SVHC = Substances of Very High Concern

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure



STOT-SE = Specific Target Organ Toxicity - Single Exposure

TWA = Time weighted average

UN = United Nations

UVBC = Unknown or variable composition, complex reaction products or of biological materials

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law. The classification of the substance/mixture in regard of environmental hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

The safety data sheet is validated by

Technical Help

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: GB-en