

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.06.2014

Version: 1

Revision: 24.06.2014

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

1.1 Product identifier

Trade name FUEL OIL, RESIDUAL**CAS Number:**

68476-33-5

EC number:

270-675-6

Index number:

649-024-00-9

Registration number 01-2119474894-22-0129

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

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU8 Manufacture of bulk, large scale chemicals (including petroleum products)

SU9 Manufacture of fine chemicals

SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys)

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Process category

PROC1 Use in closed process, no likelihood of exposure

PROC2 Use in closed, continuous process with occasional controlled exposure

PROC3 Use in closed batch process (synthesis or formulation)

PROC8a Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

PROC8b Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities

PROC15 Use as laboratory reagent

PROC16 Using material as fuel sources, limited exposure to unburned product to be expected

Environmental release category

ERC1 Manufacture of substances

ERC2 Formulation of preparations

ERC3 Formulation in materials

ERC4 Industrial use of processing aids in processes and products, not becoming part of articles

ERC6a Industrial use resulting in manufacture of another substance (use of intermediates)

ERC6b Industrial use of reactive processing aids

ERC6c Industrial use of monomers for manufacture of thermo-plastics

ERC6d Industrial use of process regulators for polymerisation processes in production of resins, rubbers, polymers

ERC7 Industrial use of substances in closed systems

ERC8d Wide dispersive outdoor use of processing aids in open systems

ERC8f Wide dispersive outdoor use resulting in inclusion into or onto a matrix

ERC9a Wide dispersive indoor use of substances in closed systems

ERC9b Wide dispersive outdoor use of substances in closed systems

Application of the substance / the preparation: Chemicals for synthesis

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

JSC "TANECO"

423570 Nizhnekamsk

POB 97 RUPS

Republic of Tatarstan

Russia

Informing department:

Vershinina Anastasiia

vershinina@efremov-gmbh.com

1.4 Emergency telephone number: fon: : +49 172 722 15 20

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Carc. 1B	H350 May cause cancer.
Repr. 2	H361 Suspected of damaging fertility or the unborn child.
STOT RE 2	H373 May cause damage to organs through prolonged or repeated exposure.
Aquatic Acute 1	H400 Very toxic to aquatic life.
Aquatic Chronic 1	H410 Very toxic to aquatic life with long lasting effects.
Acute Tox. 4	H332 Harmful if inhaled.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

T; Toxic

Carc. Cat. 2

R45: May cause cancer.

Information concerning particular hazards for human and environment: void

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS07 GHS08 GHS09

Signal word Danger

Hazard statements

H332 Harmful if inhaled.

H350 May cause cancer.

H361 Suspected of damaging fertility or the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P201 Obtain special instructions before use.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

P281 Use personal protective equipment as required.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.1 Chemical characterization: Substances

CAS No. Designation:

68476-33-5 Fuel oil, residual

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SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Instantly remove any clothing soiled by the product.

Remove breathing apparatus only after soiled clothing has been completely removed.

After inhalation Supply fresh air; consult doctor in case of symptoms.

After skin contact Instantly wash with water and soap and rinse thoroughly.

After eye contact Rinse opened eye for several minutes under running water.

After swallowing Do not induce vomiting; instantly call for medical help.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents

CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

5.2 Special hazards arising from the substance or mixture

Can be released in case of fire:

carbon monoxide (CO)

carbon dioxide (CO₂)

sulphur oxides (SO_x)

5.3 Advice for firefighters

Protective equipment: Wear self-contained breathing apparatus.

Additional information

Cool endangered containers with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Put on breathing apparatus.

Keep away from ignition sources

Avoid contact with the eyes and skin.

6.2 Environmental precautions:

Inform respective authorities in case product reaches water or sewage system.

Prevent from spreading (e.g. by damming-in or oil barriers).

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).

Dispose of contaminated material as waste according to chapter 13.

6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Open and handle container with care.

Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Keep away from combustible materials, open flames and all sources of heat.

7.2 Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and containers: Store only in the original container.

Information about storage in one common storage facility: Store away from oxidizing agents.

Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed containers.

Protect from heat and direct sunlight.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical systems: No further data; see chapter 7.

8.1 Control parameters

Components with critical values that require monitoring at the workplace: Not required.

DNELs

DNEL	0.02 (d) mg/kg (long-term oral consumer systemic)
	0.07 mg/kg (long-term dermal worker systemic)
	0.12 (d) mg/cm ³ (long-term inhalativ worker local)
	4700 (15') mg/m ³ (short-term inhalativ worker local)

Additional information: The lists that were valid during the compilation were used as basis.

8.2 Exposure controls

Personal protective equipment

General protective and hygienic measures

Keep away from foodstuffs, beverages and food.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Store protective clothing separately.

Breathing equipment:

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

Protection of hands:

Protective gloves (EN 374)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

Rubber gloves

Neoprene gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

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Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Tightly sealed safety glasses (EN 166)

Body protection: Protective work clothing: DIN EN 13034

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
General Information
Appearance:

Form:	Viscous
Colour:	Dark
Smell:	Mineraloil-like
Odour threshold:	Not determined.

pH-value:	Not determined.
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Change in condition

Melting point/Melting range:	<30 °C
Boiling point/Boiling range:	150-750 °C

Flash point:	> 66 °C
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Inflammability (solid, gaseous)	Not applicable.
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Ignition temperature:

Decomposition temperature:	Not determined.
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Self-inflammability:	Not determined. 220-550 °C
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Danger of explosion:	Product is not explosive.
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Critical values for explosion:

Lower:	1 Vol %
Upper:	6 Vol %

Vapour pressure at 20 °C:	0.02-0, kPa
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Density at 20 °C	840-1200 kg/cm ³
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Relative density at 20 °C	0.986 g/cm ³
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Vapour density	Not determined.
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Evaporation rate	Not applicable.
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Solubility in / Miscibility with

Water:	Not determined.
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Partition coefficient (n-octanol/water):	Not determined.
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Viscosity:

dynamic:	Not determined.
kinematic at 50 °C:	>100 cSt

9.2 Other information

No further relevant information available.

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SECTION 10: Stability and reactivity

10.1 Reactivity

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions

Reacts with strong oxidizing agents

Reacts with peroxides and other radical forming substances

10.4 Conditions to avoid

No further relevant information available.

10.5 Incompatible materials:

No further relevant information available.

10.6 Hazardous decomposition products:

carbon monoxide (CO) and carbon dioxide (CO₂)

sulphur oxides (SO_x)

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rat)
Inhalative	LC50/4h	4.1 mg/L (rat)

Primary irritant effect:

on the skin: No irritant effect.

on the eye: No irritant effect.

Sensitization: No sensitizing effect known.

Other information (about experimental toxicology):

Dermal	NOAEL	30 mg/kg/day (rat)
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CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carc. 1B, Repr. 2

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

ErC50	>0.75 (72h) mg/L (algae)
LC50	48 (96h) mg/L (brachydanio rerio)
	IUCLID
	> mg/L (daphnia magna)
	>79 (96h) mg/L (fish)
	54 (96h) mg/L (jordanella floridae)
	IUCLID
	130 (96h) mg/L (menidia menidia)
	IUCLID
	35 (96h) mg/L (pimephales promelas)
	IUCLID

12.2 Persistence and degradability

No further relevant information available.

12.3 Bioaccumulative potential

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

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Additional ecological information:
General notes:

Not known to be hazardous to water.

Water hazard class 2 (Self-assessment): hazardous for water.

Do not allow product to reach ground water, water bodies or sewage system.

Danger to drinking water if even small quantities leak into soil.

12.5 Results of PBT and vPvB assessment
PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Recommendation

Waste material must be disposed of in accordance with Directive on waste 2008/98/EC as well as national and local regulations.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

European waste catalogue

13 00 00	OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19)
13 07 00	wastes of liquid fuels
13 07 03*	other fuels (including mixtures)

Uncleaned packagings:
Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN-Number
ADR, IMDG, IATA

UN3256

14.2 UN proper shipping name
ADR

UN3256 ELEVATED TEMPERATURE LIQUID, FLAMMABLE, N.O.S. (Fuel oil, residual), ENVIRONMENTALLY HAZARDOUS

IMDG

ELEVATED TEMPERATURE LIQUID,

IATA

FLAMMABLE, N.O.S., MARINE POLLUTANT

ELEVATED TEMPERATURE LIQUID,

FLAMMABLE, N.O.S.

14.3 Transport hazard class(es)
ADR

Class

3 (F2) Flammable liquids.

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Label	3
IMDG	
 	
Class	3 Flammable liquids.
Label	3
IATA	
	
Class	3 Flammable liquids.
Label	3
14.4 Packing group ADR, IMDG, IATA	III
14.5 Environmental hazards:	Environmentally hazardous substance, liquid; Marine Pollutant
Marine pollutant:	No
Special marking (ADR):	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Flammable liquids.
Kemler Number:	30
EMS Number:	F-E,S-D
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	0
Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
Transport category	3
Tunnel restriction code	D/E
IMDG	
Limited quantities (LQ)	0
Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
UN "Model Regulation":	UN3256, ELEVATED TEMPERATURE LIQUID, FLAMMABLE, N.O.S. (Fuel oil, residual), ENVIRONMENTALLY HAZARDOUS, 3, III

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SECTION 15: Regulatory information

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

National regulations

Information about limitation of use:

Workers should not be exposed to this hazardous material. Exceptions can be made by the authorities in certain exceptional cases.

Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing data specification sheet: Product safety department

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Acute Tox. 4: Acute toxicity, Hazard Category 4

Carc. 1B: Carcinogenicity, Hazard Category 1B

Repr. 2: Reproductive toxicity, Hazard Category 2

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1

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