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

1.1 Product identifier

Trade name/designation Fluid MM 990-140, oil soluble

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

Sector of uses [SU]
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
SU3 Industrial uses

Use of the substance/mixture
Lubricating agent
Additive

Uses advised against
This information is not available.

1.3 Details of the supplier of the safety data sheet

Supplier
joke Technology GmbH
Asselborner Weg 14-16
D-51249 Bergisch Gladbach
Telephone +49 (0) 22 04 / 8 39-0
Telefax +49 (0) 22 04 / 8 39-60
E-mail info@joke.de
Website https://www.joke-technology.com/

Department responsible for information:
Telephone +49 (0) 22 04 / 8 39-0
Telefax +49 (0) 22 04 / 8 39-60

E-mail (competent person):
sida@joke.de

1.4 Emergency telephone number

Vergiftungs-I-Z. Freiburg (Sprache / Language: DE, EN) +49 (0) 761 / 1 92 40

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]	Classification procedure
Flam. Liq. 3, H226	
Asp. Tox. 1, H304	

Hazard statements for physical hazards
H226 Flammable liquid and vapour.

Hazard statements for health hazards
H304 May be fatal if swallowed and enters airways.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms

GHS02 GHS08

Signal word
Danger

Hazard statements
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.

Precautionary statements
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER.
P331 Do NOT induce vomiting.

2.3 Other hazards

Adverse physicochemical effects
Highly flammable liquid and vapor.

Adverse human health effects and symptoms
May be fatal if swallowed and enters airways.

Adverse environmental effects
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, Annex XIII.
The mixture does not contain substances listed for endocrine disrupting properties in accordance with REACH Article 59(1) or has been determined not to contain substances with endocrine disrupting properties at a concentration of 0.1% or greater in accordance with the criteria set out in Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

Results of PBT and vPvB assessment
The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition / information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

Hazardous ingredients

CAS No.	EC No.	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
	918-167-1	Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	≥ 70 weight-%	Flam. Liq. 3; H226 Asp. Tox. 1; H304	

SECTION 4: First aid measures

4.1 Description of first aid measures

General information
Call a physician immediately.

Following inhalation
Remove casualty to fresh air and keep warm and at rest.

Following skin contact
Take off contaminated clothing.
In case of contact with skin wash off with warm water.

After eye contact
In case of contact with eyes rinse thoroughly with warm water.

Following ingestion
Do NOT induce vomiting.
If swallowed seek medical advice immediately and show the doctor packing or label.

4.2 Most important symptoms and effects, both acute and delayed

Effects
Pulmonary oedema
May be fatal if swallowed and enters airways

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor
Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Water spray jet
Dry extinguishing powder
Foam
Carbon dioxide (CO_2)

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products
Dangerous smoke can arise.

5.3 Advice for firefighters

Special protective equipment for firefighters
Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information
Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel
Provide adequate ventilation.
Remove all sources of ignition.

For emergency responders
Personal protection equipment
Ensure adequate ventilation.

6.2 Environmental precautions

Avoid release into the environment

6.3 Methods and material for containment and cleaning up

For containment
After taking up the material dispose according to regulation.
Take up with absorbent material.

For cleaning up
If the product enters the sewage system or public waters, the authorities must be notified

6.4 Reference to other sections

Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures
If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.
Keep away from sources of ignition - No smoking.
Use only antistatically equipped (spark-free) tools.
Take precautionary measures against static discharges (earthing (grounding) at pouring)
Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.
Wear personal protection equipment (refer to section 8).

Advices on general occupational hygiene
Wash hands before breaks and after work.
When using do not eat, drink, smoke, sniff.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions
Ground the tank and the system to be filled.

Requirements for storage rooms and vessels
Keep container tightly closed.
Ensure adequate ventilation of the storage area.

7.3 Specific end use(s)

Recommendation
This information is not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

No data available

8.2 Exposure controls

Appropriate engineering controls

Remark
Ensure good ventilation of the workplace.

Personal protection equipment

Eye/face protection
tightly fitting goggles

Hand protection
For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.
Tested protective gloves must be worn

Body protection:
Protective clothing

Respiratory protection
If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Thermal hazards
This information is not available.

Environmental exposure controls

Remark
Avoid release into the environment.

Additional information
This information is not available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state
liquid

Colour
colourless

Odour
This information is not available.

Safety relevant basis data

	Value	Method	Source, Remark
Odour threshold:	not determined		
Melting point/freezing point			not applicable
Boiling point or initial boiling point and boiling range	135- 245 °C		
flammability	not determined		
Lower and upper explosion limit	Lower explosion limit 0.6 Vol-%		

	Value	Method	Source, Remark
Lower and upper explosion limit	Upper explosion limit 7 Vol-%		
Flash point	> 56 °C		
Auto-ignition temperature	not determined		
Decomposition temperature	not determined		
pH	not determined		
Viscosity	kinematic < 1.0E7 mm²/s		
Viscosity	Kinematic viscosity 2.3 mm²/s (20°C)		Hydrocarbons, C11-C12, isoalkanes, <2% aromatics
Solubility(ies)	not determined		
Partition coefficient n-octanol/water (log value)	not determined		
Vapour pressure	not determined		
Density and/or relative density	0.7- 0.9 g/cm³		
Relative vapour density	not determined		
particle characteristics	not determined		

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Highly flammable liquid and vapor.

10.2 Chemical stability

The product is stable under normal conditions.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Animal data

	Effective dose	Method,Evaluation	Source, Remark
Acute oral toxicity	not determined		

	Effective dose	Method,Evaluation	Source, Remark
Acute dermal toxicity	not determined		
Acute inhalation toxicity	not determined		

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

Skin corrosion/irritation
not determined

Serious eye damage/irritation
not determined

Sensitisation to the respiratory tract
not determined

Skin sensitisation
not determined

Germ cell mutagenicity
not determined

Carcinogenicity
not determined

Reproductive toxicity
not determined

Overall Assessment on CMR properties
The mixture is not classified as mutagenic / not classified as carcinogenic / not classified as toxic for reproduction

STOT-single exposure
not determined

STOT-repeated exposure
not determined

Aspiration hazard
Remark
May be fatal if swallowed and enters airways.

11.2 Information on other hazards
No data available

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

	Effective dose	Method,Evaluation	Source, Remark
Acute (short-term) fish toxicity	not determined		
Chronic (long-term) fish toxicity	not determined		
Acute (short-term) toxicity to crustacea	not determined		
Chronic (long-term) toxicity to aquatic invertebrate	not determined		
Acute (short-term) toxicity to algae and cyanobacteria	not determined		

	Effective dose	Method,Evaluation	Source, Remark
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	not determined		
Toxicity to other aquatic plants/organisms	not determined		
Toxicity to microorganisms	not determined		

12.2 Persistence and degradability

Assessment/classification
Biodegradable.

12.3 Bioaccumulative potential

Assessment/classification
This information is not available.

12.4 Mobility in soil

Assessment/classification
This information is not available.

12.5 Results of PBT and vPvB assessment

The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

Additional ecotoxicological information

Additional information
The product is not considered harmful to aquatic organisms nor does it cause long-term damage to the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Appropriate disposal / Product
Dispose of waste according to applicable legislation.

Appropriate disposal / Package
Dispose of according to official regulations.

Remark
Take care when handling empty containers due to residues of flammable vapors.

SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	UN 3295	UN 3295	UN 3295
14.2 UN proper shipping name	HYDROCARBONS, LIQUID, N.O.S.	HYDROCARBONS, LIQUID, N.O.S.	Hydrocarbons, liquid, n.o.s.

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.3 Transport hazard class(es)	3	3	3
14.4 Packing group	III	III	III
14.5 Environmental hazards	-	-	-

14.6 Special precautions for user

No data available

14.7 Maritime transport in bulk according to IMO instruments

No data available

Land transport (ADR/RID)

UN number or ID number	UN 3295
UN proper shipping name	HYDROCARBONS, LIQUID, N.O.S.
Transport hazard class(es)	3
Hazard label(s)	3
Classification code	F1
Packing group	III
Environmental hazards	-
Limited quantity (LQ)	5 L
Special provisions	-
Tunnel restriction code	D/E

Sea transport (IMDG)

UN number or ID number	UN 3295
UN proper shipping name	HYDROCARBONS, LIQUID, N.O.S.
Transport hazard class(es)	3
Packing group	III
Environmental hazards	-
Limited quantity (LQ)	5 L
Marine pollutant	No
EmS	F-E, S-D

Air transport (ICAO-TI / IATA-DGR)

UN number or ID number	UN 3295
UN proper shipping name	Hydrocarbons, liquid, n.o.s.
Transport hazard class(es)	3
Packing group	III
Environmental hazards	-

SECTION 15: Regulatory information

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

Other regulations (EU)

Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive] VOC

VOC content, delivery state ≥ 70 %

15.2 Chemical Safety Assessment

National regulations

A chemical safety assessment was not carried out.

SECTION 16: Other information

Indication of changes

* Data changed compared with the previous version

Abbreviations and acronyms

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE: Acute Toxicity Estimate
BCF: Bioconcentration Factor
CLP: Classification, Labelling and Packaging
DMEL: Derived Minimal Effect Level
DNEL: derived no-effect level
EC50: Effective Concentration 50%
OECD: Organisation for Economic Cooperation and Development
NOEC: No Observed Effect Concentration
NOAEL: No Observed Adverse Effect Level
LOAEL: Lowest Observed Adverse Effect Level
LD50: Lethal (fatal) Dose 50%
LC50: Lethal (fatal) Concentration 50%
IMDG: International Maritime Dangerous Goods
PBT: persistent and bioaccumulative and toxic
vPvB: very persistent, very bioaccumulative
RID: Dangerous goods regulations for transport by rail
REACH: Registration, Evaluation and Authorization of Chemicals
IATA: International Air Transport Association
IARC: International Agency for Research on Cancer

Additional information

This safety data sheet complies with the requirements of Commission Regulation (EU) 2020/878 amending Regulation (EC) No 1907/2006.
The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Relevant H- and EUH-phrases (Number and full text)

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.