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

1.1 Product identifier

Trade name: Eni i-Sint XEF 0W-20 DE

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

General use: Engine oil

1.3 Details of the supplier of the safety data sheet

Company name: Eni Schmiertechnik GmbH
Street/POB-No.: Paradiesstraße 14
Postal Code, city: 97080 Würzburg
Germany
WWW: www.enischmiertechnik.de
E-mail: info.wuerzburg@eni.com
Telephone: +49 (0)931-90098-0
Telefax: +49 (0)931-98442

Department responsible for information:
Application Engineering & Product Management (AEPM)
Telephone: +49 (0)931-90098-0
E-mail: technik.wuerzburg@eni.com

1.4 Emergency telephone number

GIZ-Nord, Göttingen
Telephone: +49 (0)551-19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

This mixture is classified as not hazardous.

2.2 Label elements

Labelling (CLP)

Hazard statements: not applicable

Precautionary statements: not applicable

Special labelling

EUH208 Contains Benzoic acid, 2-hydroxy-, mono-C14-18 alkyl derivs., calcium salts (2:1), Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts and Methyl methacrylate. May produce an allergic reaction.

EUH210 Safety data sheet available on request.

2.3 Other hazards

Formation of an oil film on water impairs the oxygen exchange and may cause significant adverse effects in the aquatic environment. Special danger of slipping by leaking/spilling product.

Endocrine disrupting properties, Results of PBT and vPvB assessment:
This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% (w/w) or higher.
The product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Chemical characterisation: A mixture of mineral oil and additives.

Hazardous ingredients:

Identifiers	Designation Classification	Content
REACH 01-2119484627-25-xxxx EC No. 265-157-1 CAS 64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic Asp. Tox. 1; H304.	45 - 50 %
EC No. 500-183-1 CAS 68037-01-4	Dec-1-ene, homopolymer/oligomers, hydrogenated Asp. Tox. 1; H304.	15 - 20 %
EC No. - CAS -	Mineral oil Asp. Tox. 1; H304.	1 - 5 %
list no. 601-337-1 CAS 114959-46-5	Benzoic acid, 2-hydroxy-, mono-C14-18 alkyl derivs., calcium salts (2:1) Skin Sens. 1B; H317.	< 1 %
list no. 682-816-2 CAS 722503-68-6	Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts Skin Sens. 1B; H317.	< 1 %
REACH 01-2119452498-28-xxxx EC No. 201-297-1 CAS 80-62-6	Methyl methacrylate Flam. Liq. 2; H225. Skin Irrit. 2; H315. Skin Sens. 1; H317. STOT SE 3; H335.	< 1 %

Full text of H- and EUH-statements: see section 16.

Additional information: The highly refined mineral oil contains <3% (w/w) DMSO extract, according to IP346.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: Take off contaminated clothing and wash it before reuse.

In case of inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical treatment in case of troubles.

Following skin contact: Remove residues with soap and water. In case of skin reactions, consult a physician.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.

After swallowing: Rinse mouth. Never give anything by mouth to an unconscious person. Do not induce vomiting. Aspiration hazard! Immediately get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

May cause allergic reactions in already sensitized persons.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Water spray jet, foam, extinguishing powder, carbon dioxide.

Extinguishing media which must not be used for safety reasons:
Full water jet.

5.2 Special hazards arising from the substance or mixture

Combustible.
May form dangerous gases and vapours in case of fire.
Furthermore, there may develop: Pyrolysis products, smoke, nitrogen oxides (NOx), phosphorus oxides, hydrogen sulfide, hydrocarbons, carbon monoxide and carbon dioxide.

5.3 Advice for firefighters

Special protective equipment for firefighters:
Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Additional information: Do not allow fire water to penetrate into surface or ground water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe mist/vapours/spray. Avoid oil mist formation. Provide adequate ventilation. Keep away from sources of ignition. Do not get in eyes, on skin, or on clothing. Take off contaminated clothing and wash it before reuse. Wear appropriate protective equipment. Keep unprotected people away.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. If necessary notify appropriate authorities.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents) and place in closed containers for disposal.
Never return spills in original containers for re-use.

Additional information: Special danger of slipping by leaking/spilling product.

6.4 Reference to other sections

Refer additionally to section 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Avoid oil mist formation. Do not breathe mist/vapours/spray. When hot, product develops flammable vapours.
Do not get in eyes, on skin, or on clothing. Take off contaminated clothing and wash it before reuse. Wear appropriate protective equipment.
Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.
Don't put cleaning rags fouled by oil into trousers pockets.

Precautions against fire and explosion:
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Take action to prevent static discharges.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed and in a well-ventilated place.
Keep container dry. Keep only in the original container.
Protect from heat and direct sunlight.
Store containers in upright position.
Recommended storage temperature: < 50 °C.

Hints on joint storage:

Do not store together with strong oxidizing agents.
Keep away from food, drink and animal feedingstuffs.

Storage class:

10 = Combustible liquids, unless storage class 3

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
80-62-6	Methyl methacrylate	Europe: IOELV: STEL	100 ppm
		Europe: IOELV: TWA	50 ppm
		Germany: TRGS 900 Kurzzeit	420 mg/m³; 100 ppm
		Germany: TRGS 900 Langzeit	210 mg/m³; 50 ppm

DNEL/DMEL:

Information about Distillates (petroleum), hydrotreated heavy paraffinic:
DNEL long-term, workers, dermal, systemic: 0,97 mg/kg bw/d
DNEL long-term, workers, inhalative, systemic: 2,73 mg/m³
DNEL long-term, workers, inhalative, local: 5,58 mg/m³
DNEL long-term, consumers, oral, systemic: 0,74 mg/kg bw/d

Information about Methyl methacrylate:
DNEL long-term, workers, dermal, systemic: 13,67 mg/kg bw/d
DNEL long-term, workers, dermal, local: 1,5 mg/cm²
DNEL short-term, workers, dermal, local: 1,5 mg/cm²
DNEL long-term, workers, inhalative, systemic: 348,4 mg/m³
DNEL long-term, workers, inhalative, local: 208 mg/m³
DNEL short-term, workers, inhalative, local: 416 mg/m³
DNEL long-term, consumers, dermal, systemic: 8,2 mg/kg bw/d
DNEL long-term, consumers, dermal, local: 1,5 mg/cm²
DNEL short-term, consumers, dermal, local: 1,5 mg/cm²
DNEL long-term, consumers, inhalative, systemic: 74,3 mg/m³
DNEL long-term, consumers, inhalative, local: 104 mg/m³
DNEL short-term, consumers, inhalative, local: 208 mg/m³
DNEL long-term, consumers, oral, systemic: 8,2 mg/kg bw/d

PNEC:

Information about Distillates (petroleum), hydrotreated heavy paraffinic:
PNEC oral: 9,33 mg/kg Food

Information about Methyl methacrylate:
PNEC water (freshwater): 0,94 mg/L
PNEC water (marine water): 0,094 mg/L
PNEC sediment (freshwater): 10,2 mg/kg dw
PNEC sediment (marine water): 1,02 mg/kg dw
PNEC STP: 10 mg/L
PNEC soil: 1,48 mg/kg dw

8.2 Exposure controls

Provide good ventilation and/or an exhaust system in the work area.

Personal protection equipment

Occupational exposure controls

Respiratory protection: In case of inadequate ventilation wear respiratory protection. Respiratory protection must be worn whenever the WEL levels have been exceeded.
Generation/formation of mist: Use filter apparatus type A2/P2.
The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product.

Hand protection: Protective gloves according to DIN EN 374.
Glove material: nitrile rubber

During splash contact:
Breakthrough time: 30 min
Layer thickness: 0,11 mm

During full contact:
Breakthrough time: 480 min
Layer thickness: 0,33 mm

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to DIN EN ISO 16321-1:2022.

Body protection: Wear suitable protective clothing.

General protection and hygiene measures:
Do not breathe mist/vapours/spray. Avoid oil mist formation. Do not get in eyes, on skin, or on clothing. Take off contaminated clothing and wash it before reuse.
Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.
Don't put cleaning rags fouled by oil into trousers pockets.

Environmental exposure controls

Refer to "6.2 Environmental precautions".

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state at 20 °C and 101.3 kPa	liquid
Colour:	yellow - brown
Odour:	Characteristic
Odour threshold:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	> 320 °C
Flammability:	No data available
Upper/lower flammability or explosive limits:	LEL (Lower Explosion Limit): 0,60 Vol-% UEL (Upper Explosive Limit): 6,50 Vol-%
Flash point/flash point range:	> 200 °C (DIN ISO 2592)
Decomposition temperature:	Not applicable
pH:	Not applicable
Viscosity, kinematic:	at 40 °C: 41 mm²/s (ASTM D7279)
Water solubility:	Practically insoluble
Partition coefficient: n-octanol/water:	No data available
Vapour pressure:	No data available
Density:	at 15 °C: 0,825 - 0,865 g/mL (DIN EN ISO 12185)
Vapour density:	No data available
Particle characteristics:	Not applicable

9.2 Other information

Explosive properties:	No data available
Oxidizing characteristics:	No data available
Auto-ignition temperature:	No data available
Evaporation rate:	No data available
Additional information:	Pour point: < -48 °C (ASTM D7346)

SECTION 10: Stability and reactivity

10.1 Reactivity

Refer to subsection "Possilbility of hazardous reactions".

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

The formation of combustible vapours is possible at temperatures above: Flash point.

10.4 Conditions to avoid

Keep away from heat.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

No hazardous decomposition products when regulations for storage and handling are observed.

Thermal decomposition:	Not applicable

SECTION 11: Toxicological information

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

Toxicological effects:

The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Based on available data, the classification criteria are not met.
ATEmix (calculated): ATE > 2.000 mg/kg

Acute toxicity (dermal): Based on available data, the classification criteria are not met.
ATEmix (calculated): ATE > 2.000 mg/kg

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.
ATEmix (calculated): ATE (vapour) > 20 mg/L
ATEmix (calculated): ATE (dusts/mist) > 5 mg/L

Skin corrosion/irritation: Based on available data, the classification criteria are not met.
Frequently or prolonged contact with skin may cause dermal irritation.

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

Sensitisation to the respiratory tract: Based on available data, the classification criteria are not met.

Skin sensitisation: Based on available data, the classification criteria are not met.
Contains Benzoic acid, 2-hydroxy-, mono-C14-18 alkyl derivs., calcium salts (2:1), Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts and Methyl methacrylate. May produce an allergic reaction.

Germ cell mutagenicity/Genotoxicity: 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.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met.

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

11.2 Information on other hazards

Endocrine disrupting properties: None

Other information: Information about Distillates (petroleum), hydrotreated heavy paraffinic:
LD50 Rabbit, dermal: > 5.000 mg/kg (OECD 402)

SECTION 12: Ecological information

12.1 Toxicity

Water Hazard Class: 1 = slightly hazardous to water (Self-classification (mixture).)

12.2 Persistence and degradability

Further details: Not readily biodegradable (according to OECD criteria). Data apply to the main component.

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

The product does not contain any substances classified as PBT or vPvB.

12.6 Endocrine disrupting properties

None

12.7 Other adverse effects

General information: Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste key number: 13 02 05* = Mineral-based non-chlorinated engine, gear and lubricating oils
* = Evidence for disposal must be provided.

Recommendation: Dispose of waste according to applicable legislation.

Package

Recommendation: Dispose of waste according to applicable legislation. Handle contaminated packages in the same way as the substance itself. Non-contaminated packages may be recycled.

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID, ADN, IMDG, IATA-DGR:
not applicable

14.2 UN proper shipping name

ADR/RID, ADN, IMDG, IATA-DGR:
Not restricted

14.3 Transport hazard class(es)

ADR/RID, ADN, IMDG, IATA-DGR:
not applicable

14.4 Packing group

ADR/RID, ADN, IMDG, IATA-DGR:
not applicable

14.5 Environmental hazards

Dangerous for the environment: Substance/mixture is not environmentally hazardous according to the criteria of the UN model regulations.

Marine pollutant - IMDG: no

14.6 Special precautions for user

No dangerous good in sense of these transport regulations.

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

National regulations - Germany

Storage class: 10 = Combustible liquids, unless storage class 3

Water Hazard Class: 1 = slightly hazardous to water (Self-classification (mixture).)

Technical guidance air: 5.2.5

Further regulations, limitations and legal requirements:

The product is not subject to the Chemicals Prohibition Ordinance (ChemVerbotsV).

National regulations - EC member states

Labelling of packaging with <= 125mL content

Hazard statements:

EUH208 Contains Benzoic acid, 2-hydroxy-, mono-C14-18 alkyl derivs., calcium salts (2:1), Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts and Methyl methacrylate. May produce an allergic reaction.

EUH210 Safety data sheet available on request.

Precautionary statements: not applicable

Further regulations, limitations and legal requirements:

Use restriction according to REACH annex XVII, no.: 40, 75

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

SECTION 16: Other information

Wording of the H-phrases under paragraph 2 and 3:

H225 = Highly flammable liquid and vapour.
H304 = May be fatal if swallowed and enters airways.
H315 = Causes skin irritation.
H317 = May cause an allergic skin reaction.
H335 = May cause respiratory irritation.
EUH208 = Contains Benzoic acid, 2-hydroxy-, mono-C14-18 alkyl derivs., calcium salts (2:1), Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts and Methyl methacrylate. May produce an allergic reaction.
EUH210 = Safety data sheet available on request.

Reason of change:

Changes in section 3: Composition / Information on ingredients
Changes in section 9: Physical and chemical properties
Changes in section 15: Regulatory information
General revision

Date of first version: 9.11.2022

Department issuing data sheet: see section 1: Department responsible for information

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
AS/NZS: Australian Standards/New Zealand Standards
Asp. Tox.: Aspiration toxicity
ATE: Acute toxicity estimate
CAS: Chemical Abstracts Service
CFR: Code of Federal Regulations
CLP: Classification, Labelling and Packaging
DMEL: Derived minimal effect level
DNEL: Derived no-effect level
EC: European Community
EN: European Standard
EQ: Excepted quantities
EU: European Union
Flam. Liq.: Flammable liquid
IATA: International Air Transport Association
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IMDG Code: International Maritime Dangerous Goods Code
LD50: Lethal dose 50%
LEL: Lower Explosion Limit
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD: Organisation for Economic Co-operation and Development
OEL: Occupational Exposure Limit Value
OSHA: Occupational Safety and Health Administration
PBT: Persistent, bioaccumulative and toxic
PNEC: Predicted no-effect concentration
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
Skin Irrit.: Skin irritation
Skin Sens.: Skin sensitisation
STOT SE: Specific target organ toxicity - single exposure
STP: Sewage Treatment Plant
TLV: Threshold Limit Value
TRGS: Technical Rules for Hazardous Substances
vPvB: Very persistent and very bioaccumulative
WEL: Workplace Exposure Limit

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.

Most recent product information is available at:
http://sumdat.net/rxsrmh4e