

Safety Data Sheet

according to UK REACH Regulation

JMC Motorenöl Extra 0W20 VN

Revision date: 22.03.2023

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

1.1. Product identifier

JMC Motorenöl Extra 0W20 VN

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

1.3. Details of the supplier of the safety data sheet

Manufacturer

Company name: Johannes J. Matthies GmbH & Co. KG
Street: Hammerbrookstr. 97
Place: D-20097 Hamburg
Telephone: + 49 (0) 40 2 37 21-0
e-mail: info@matthies.de
Internet: www.matthies.de

Supplier

Company name: Larsson UK Ltd.
Street: 7 Alpha Court, Phoenix Parkway
Place: GB-NN17 5DP Corby
Telephone: + 44 1536 265633
e-mail: info@larsson.uk.com
Internet: www.larsson.uk.com

1.4. Emergency telephone number:

+ 44 1536 265633

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

This mixture is not classified as hazardous in accordance with GB CLP Regulation.

2.2. Label elements

GB CLP Regulation

Special labelling of certain mixtures

EUH208 Contains Calcium alkyl salicylate, long chain, calcium sulfonate (polymer). May produce an allergic reaction.
EUH210 Safety data sheet available on request.

2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
Do not allow uncontrolled discharge of product into the environment.
Endocrine disrupting potential < 0,1 %

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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Hazardous components

| CAS No | Chemical name | | | Quantity |
|-------------|---|--------------|------------------|--------------|
| | EC No | Index No | REACH No | |
| | GHS Classification | | | |
| 64742-54-7 | Baseoil paraffinic | | | 50 - < 100 % |
| | 265-157-1 | 649-467-00-8 | 01-2119484627-25 | |
| | Asp. Tox. 1; H304 | | | |
| 68037-01-4 | Hydrocarbon, low viscosity | | | 1 - < 10 % |
| | 500-183-1 | | 01-2119486452-34 | |
| | Asp. Tox. 1; H304 | | | |
| 36878-20-3 | Alkarylamine, long chain | | | 1 - < 5 % |
| | 253-249-4 | | 01-2119488911-28 | |
| | Aquatic Chronic 4; H413 | | | |
| 125643-61-0 | Alkylphenol Ester | | | 1 - < 5 % |
| | 406-040-9 | 607-530-00-7 | 01-0000015551-76 | |
| | Aquatic Chronic 4; H413 | | | |
| | Calcium alkyl salicylate, long chain | | | 0,1 - < 1 % |
| | | | | |
| | Skin Sens. 1B, Aquatic Chronic 4; H317 H413 | | | |
| | calcium sulfonate (polymer) | | | 0,1 - < 1 % |
| | | | | |
| | Skin Sens. 1B, Aquatic Chronic 4; H317 H413 | | | |

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

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|------------|---|----------------------------|--------------|
| | Specific Conc. Limits, M-factors and ATE | | |
| 64742-54-7 | 265-157-1 | Baseoil paraffinic | 50 - < 100 % |
| | dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg | | |
| 68037-01-4 | 500-183-1 | Hydrocarbon, low viscosity | 1 - < 10 % |
| | inhalation: LC50 = > 5 mg/l (dusts or mists); oral: LD50 = > 5000 mg/kg | | |
| 36878-20-3 | 253-249-4 | Alkarylamine, long chain | 1 - < 5 % |
| | oral: LD50 = > 5001 mg/kg | | |

Further Information

Phenol-Derivat Endocrine disrupting potential 57f

Hydrocarbons:

Dimethylsulfoxide (DMSO) < 3 % (Regulation (EC) No. 1272/2008 [CLP] - Note L)

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

When in doubt or if symptoms are observed, get medical advice.

After inhalation

Provide fresh air. If experiencing respiratory symptoms: Call a doctor.

After contact with skin

Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

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After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting.

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

Following skin contact: slightly irritant but not relevant for classification.

After eye contact: slightly irritant but not relevant for classification.

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**

Carbon dioxide (CO₂). Dry extinguishing powder. Water spray jet.

In case of major fire and large quantities: alcohol resistant foam. Water spray jet

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

Unsuitable extinguishing media

Full water jet.

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Pyrolysis products, toxic

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Full protection suit.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Special danger of slipping by leaking/spilling product.

For non-emergency personnel

Use personal protection equipment.

For emergency responders

Wear personal protection equipment (refer to section 8).

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Clear spills immediately. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up**For containment**

Stop leak if safe to do so.

For cleaning up

Take up mechanically. Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

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Advice on safe handling

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Avoid: generation/formation of aerosols.

Advice on protection against fire and explosion

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Store in a well-ventilated place. Keep container tightly closed. Provide for retaining containers, e.g. floor pan without outflow.

Hints on joint storage

Do not store together with: Oxidizing agent, Strong acid, alkalines.

Further information on storage conditions

Keep away from sources of ignition - No smoking.
Protect from direct sunlight.

7.3. Specific end use(s)

Lubricating agent

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****8.2. Exposure controls****Appropriate engineering controls**

Provide adequate ventilation as well as local exhaustion at critical locations.

Protective and hygiene measures

Take off contaminated clothing. Avoid contact with skin, eyes and clothes. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff. Do not put any product-impregnated cleaning rags into your trouser pockets.

Eye/face protection

Eye glasses with side protection (DIN EN 166)

Hand protection

Wear suitable gloves. (EN ISO 374)
Suitable material: NBR (Nitrile rubber)
Breakthrough time: >= 480 min
Thickness of the glove material: >= 0,38 mm

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. 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.

Skin protection

Wear suitable protective clothing.

Respiratory protection

Usually no personal respirative protection necessary.
In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Avoid release to the environment.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state: Liquid

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| | | |
|---|----------------|-------------------------|
| Colour: | green | |
| Odour: | characteristic | |
| Odour threshold: | not determined | |
| pH-Value: | | not applicable |
| Changes in the physical state | | |
| Melting point/freezing point: | | not determined |
| Boiling point or initial boiling point and boiling range: | | not determined |
| Flash point: | | 230 °C |
| Flammability | | |
| Solid/liquid: | | not determined |
| Lower explosion limits: | | not determined |
| Upper explosion limits: | | not determined |
| Auto-ignition temperature: | | not determined |
| Decomposition temperature: | | not determined |
| Vapour pressure: | | not determined |
| Density (at 15 °C): | | 0,84 g/cm ³ |
| Water solubility: | | practically insoluble |
| Solubility in other solvents | | |
| | | not determined |
| Partition coefficient n-octanol/water: | | not applicable |
| Viscosity / kinematic: (at 40 °C) | | 42,3 mm ² /s |
| Relative vapour density: | | not determined |

9.2. Other information

No information available.

SECTION 10: Stability and reactivity**10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

Heat.

10.5. Incompatible materials

Oxidizing agent, Strong acid, alkalines.

10.6. Hazardous decomposition products

In case of fire may be liberated: Pyrolysis products, toxic

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in GB CLP Regulation****Acute toxicity**

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

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| CAS No | Chemical name | | | | |
|------------|-------------------------------|----------------------|---------|--------------|----------|
| | Exposure route | Dose | Species | Source | Method |
| 64742-54-7 | Baseoil paraffinic | | | | |
| | oral | LD50 > 5000 mg/kg | Rat | Manufacturer | |
| | dermal | LD50 > 5000 mg/kg | Rabbit | Manufacturer | |
| 68037-01-4 | Hydrocarbon, low viscosity | | | | |
| | oral | LD50 > 5000 mg/kg | Rat | Manufacturer | |
| | inhalation (4 h) dust/mist | LC50 > 5 mg/l | Rat | Manufacturer | |
| 36878-20-3 | Alkarylamine, long chain | | | | |
| | oral | LD50 > 5001 mg/kg | Rat | Manufacturer | OECD 423 |

Irritation and corrosivity

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

Baseoil paraffinic: non-irritant. OECD 404, OECD 405

Alkarylamine, long chain: non-irritant. OECD 404, OECD 405

Sensitising effects

Contains Calcium alkyl salicylate, long chain, calcium sulfonate (polymer). May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

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

STOT-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**

No information available.

SECTION 12: Ecological information**12.1. Toxicity**

The product is not: Ecotoxic.

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| CAS No | Chemical name | | | | | |
|------------|----------------------------|-------------------|-----------|--------------------------------|--------------|----------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 64742-54-7 | Baseoil paraffinic | | | | | |
| | Acute fish toxicity | LC50 > 100 mg/l | 96 h | Piscis | Manufacturer | |
| | Acute algae toxicity | ErC50 > 100 mg/l | 72 h | Algae | Manufacturer | OECD 201 |
| | Acute crustacea toxicity | EC50 > 100 mg/l | 48 h | Daphnia | Manufacturer | |
| | Crustacea toxicity | NOEC 10 mg/l | 21 d | Daphnia magna (Big water flea) | Manufacturer | OECD 211 |
| 68037-01-4 | Hydrocarbon, low viscosity | | | | | |
| | Acute fish toxicity | LC50 > 750 mg/l | 96 h | Piscis | Manufacturer | |
| | Acute algae toxicity | ErC50 > 1000 mg/l | 72 h | Algae | Manufacturer | |
| | Acute crustacea toxicity | EC50 190 mg/l | 48 h | Daphnia | Manufacturer | |
| 36878-20-3 | Alkarylamine, long chain | | | | | |
| | Acute fish toxicity | LC50 > 101 mg/l | 96 h | Piscis | Manufacturer | OECD 203 |
| | Acute algae toxicity | ErC50 600 mg/l | 72 h | Algae | Manufacturer | OECD 201 |
| | Acute crustacea toxicity | EC50 > 101 mg/l | 48 h | Daphnia | Manufacturer | OECD 202 |

12.2. Persistence and degradability

The substance is not soluble in water.

| CAS No | Chemical name | | | |
|------------|--|-------|----|--------------|
| | Method | Value | d | Source |
| | Evaluation | | | |
| 36878-20-3 | Alkarylamine, long chain | | | |
| | OECD 301B | 1 % | 28 | Manufacturer |
| | Not readily biodegradable (according to OECD criteria) | | | |

12.3. Bioaccumulative potential

The product has not been tested.

BCF

| CAS No | Chemical name | BCF | Species | Source |
|------------|--------------------------|-------|---------|--------|
| 36878-20-3 | Alkarylamine, long chain | 1,584 | | |

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Phenol-Derivat Endocrine disrupting potential 57f

12.7. Other adverse effects

No information available.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations

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13.1. Waste treatment methods**Disposal recommendations**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

List of Wastes Code - residues/unused products

130205 OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS 05, 12 AND 19); waste engine, gear and lubricating oils; mineral-based non-chlorinated engine, gear and lubricating oils; hazardous waste

List of Wastes Code - used product

130205 OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS 05, 12 AND 19); waste engine, gear and lubricating oils; mineral-based non-chlorinated engine, gear and lubricating oils; hazardous waste

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information**Land transport (ADR/RID)**

14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No information available.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 75

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Information according to 2012/18/EU
(SEVESO III):

Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D):

1 - slightly hazardous to water

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Abbreviations and acronyms**

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

CAS: Chemical Abstracts Service

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

LL50: Lethal loading, 50%

EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate

NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic

vPvB: very persistent, very bioaccumulative

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Regulations concerning the international carriage of dangerous goods by rail

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

IMDG: International Maritime Code for Dangerous Goods

EmS: Emergency Schedules

MFAG: Medical First Aid Guide

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container

VOC: Volatile Organic Compounds

SVHC: Substance of Very High Concern

Relevant H and EUH statements (number and full text)

H304 May be fatal if swallowed and enters airways.

H317 May cause an allergic skin reaction.

H413 May cause long lasting harmful effects to aquatic life.

EUH208 Contains Calcium alkyl salicylate, long chain, calcium sulfonate (polymer). May produce an allergic reaction.

EUH210 Safety data sheet available on request.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of

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product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)