

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006, as retained and amended in UK law [UK REACH]

Revision date: 9/1/2023
Version: 10.0
Replaces version: 9.0
Language: en-GB
Date of print: 20/3/2023

Ultra 350

Material number LZB x07

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

1.1 Product identifier

Trade name: Ultra 350
REACH registration No.: 01-2119488667-17-XXXX

This safety data sheet pertains to the following products:

LZB 107: 5 L
LZB 207: 10 L
LZB 307: 20 L

CAS-Number: 53585-53-8
EC-number: 258-649-2

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

General use: Heat transfer fluids
Industrial use
Professional uses / Public domain

1.3 Details of the supplier of the safety data sheet

Company name: Lauda Dr. R. Wobser GmbH & Co. KG
Street/POB-No.: Laudaplatz 1
Postal Code, city: DE-97922 Lauda-Königshofen
WWW: www.lauda.de
E-mail: info@lauda.de
Telephone: +49 (0)9343-503-0
Telefax: +49 (0)9343-503-222

Department responsible for information:
Department Quality Management,
Telephone: +49 9343 503-331, e-mail info@lauda.de

1.4 Emergency telephone number

National Poisons Information Service (Birmingham Unit)
Telephone: 844 892 0111
Transport:
CONSULTANK Lutz Harder GmbH (Contract QUALI003)
Telephone: +49 (0)178-4337434 (from USA: 01149 178 4337434)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

Repr. 1B; H360FD May damage fertility. May damage the unborn child.
Asp. Tox. 1; H304 May be fatal if swallowed and enters airways.
Aquatic Chronic 1; H410 Very toxic to aquatic life with long lasting effects. (M-factor = 10)

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2.2 Label elements

Labelling (CLP)



Signal word:

Danger

Hazard statements:

H304 May be fatal if swallowed and enters airways.
H360FD May damage fertility. May damage the unborn child.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P201 Obtain special instructions before use.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P331 Do NOT induce vomiting.
P391 Collect spillage.

Special labelling

Text for labelling:

Dibenzylbenzene, ar-methyl derivative

2.3 Other hazards

Special danger of slipping by leaking/spilling product.
Thermal decomposition: Formation of hydrocarbons.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

SECTION 3: Composition/information on ingredients

3.1 Substances

Chemical characterisation: Dibenzylbenzene, ar-methyl derivative

CAS-Number: 53585-53-8

EC-number: 258-649-2

M-factors: Aquatic Chronic 1: M = 10.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: If medical advice is needed, have product container or label at hand. First aider: Pay attention to self-protection! Take off contaminated clothing and wash it before reuse.

In case of inhalation: Move victim to fresh air; if necessary, provide artificial respiration or oxygen. Seek medical attention.

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. In case of eye irritation consult an ophthalmologist.

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After swallowing: Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person.
Caution if victim vomits: Risk of aspiration! Do not induce vomiting. Immediately get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

May be fatal if swallowed and enters airways.

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, extinguishing powder, carbon dioxide (CO₂).

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: aromatic hydrocarbons, carbon monoxide and carbon dioxide

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information:

Hazchem-Code: •3Z

Cool endangered containers with water spray and, if possible, remove from danger zone. 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

Avoid exposure. Avoid contact with the substance. If possible, eliminate leakage. Keep unprotected people away. Do not breathe mist/vapours/spray. Ensure adequate ventilation, especially in confined areas. Use respiratory protection whenever ventilation is inadequate. Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse.

6.2 Environmental precautions

Do not allow to penetrate into soil, waterbodies or drains. If necessary notify appropriate authorities.

6.3 Methods and material for containment and cleaning up

Collect mechanically using liquid-binding material (sand, diatomaceous earth, universal binding agents). Dispose of waste in accordance with local, state, and federal regulations. Final cleaning.

Additional information:

Special danger of slipping by leaking/spilling product.

6.4 Reference to other sections

Refer additionally to section 8 and 13.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling: Obtain special instructions before use. Do not breathe mist/vapours/spray. Avoid contact with skin. Provide adequate ventilation, and local exhaust as needed. Wear appropriate protective equipment. When using do not eat, drink or smoke. Take off contaminated clothing and wash it before reuse. Wash hands before breaks and after work. Have eye wash bottle or eye rinse ready at work place.

Precautions against fire and explosion:

Take precautionary measures against static discharges.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only non-sparking tools.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed.
Suitable material for containers/equipment: steel, stainless steel.

Hints on joint storage:

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

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Additional information: Contains no substances with occupational exposure limit values.

DNEL/DMEL:

DNEL workers, inhalative, long-term, systemic: 0.259 mg/m³
DNEL workers, dermal, long-term, systemic: 0.37 mg/kg bw/d
DNEL consumers, inhalative, long-term, systemic: 64.4 µg/m³
DNEL consumers, dermal, long-term, systemic: 0.185 mg/kg bw/d
DNEL consumers, oral, long-term, systemic: 18.5 µg/kg bw/d

PNEC:

PNEC water (freshwater): 0.028 µg/L
PNEC water (marine water): 0.003 µg/L
PNEC sediment (freshwater): 0.11 mg/kg dw
PNEC sediment (marine water): 0.11 mg/kg dw
PNEC soil: 2 mg/kg dw
PNEC sewage treatment plant: 1,000 mg/L

8.2 Exposure controls

When vapours form: Withdraw by suction.
Provide specialised room ventilation (at least 10 air changes per hour).

Personal protection equipment

Occupational exposure controls

Respiratory protection: Respiratory protection in case of aerosol or vapour formation
Use filter type A oder A-P2 according to EN 14387.

Hand protection:

Protective gloves according to EN 374.
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

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Eye protection: Tightly sealed goggles according to EN 166.

Body protection: Wear suitable protective clothing.

General protection and hygiene measures:
Obtain special instructions before use. When using do not eat, drink or smoke. Do not breathe mist/vapours/spray. Avoid contact with skin. Take off contaminated clothing and wash it before reuse. Wash hands before breaks and after work. Have eye wash bottle or eye rinse ready at work place.

Environmental exposure controls

Do not allow to enter into ground-water, surface water or drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Physical state at 20 °C and 101.3 kPa: liquid Colour: colourless up to yellow
Odour:	weak
Odour threshold:	No data available
pH:	No data available
Melting point/freezing point:	-39 - -32 °C
Initial boiling point and boiling range:	approx. 390 °C
Flash point/flash point range:	approx. 212 °C
Evaporation rate:	No data available
Flammability:	No data available
Explosion limits:	No data available
Vapour pressure:	at 20 °C: <= 0.01 hPa
Vapour density:	No data available
Density:	>= 1 g/mL
Water solubility:	at 20 °C: <= 0.1 mg/L
Partition coefficient: n-octanol/water:	at 22 °C: >= 6 log P(o/w) Based on the n-octanol/water partition coefficient accumulation in organisms is possible.
Auto-ignition temperature:	Not self-igniting
Decomposition temperature:	Thermal decomposition: Formation of hydrocarbons.
Viscosity, kinematic:	at 20 °C: 48 mm ² /s at 40 °C: 16 mm ² /s
Explosive properties:	No data available
Oxidizing characteristics:	No data available

9.2 Other information

Additional information: No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Refer to subsection "Possibility of hazardous reactions".

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10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Heating can release hazardous gases.

10.4 Conditions to avoid

Heat, UV-radiation/sunlight

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: Thermal decomposition: Formation of hydrocarbons.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity: LD50 Rat, oral: > 5000 mg/kg (OECD 401)
 LD50 Rat, dermal: > 2000 mg/kg (OECD 402)
 LC0 Rat, inhalative (vapour): > 0.24 mg/L/4h (OECD 403)

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Toxicological effects:

Acute toxicity (oral): Based on available data, the classification criteria are not met.

Acute toxicity (dermal): Based on available data, the classification criteria are not met.

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.

Skin corrosion/irritation: Based on available data, the classification criteria are not met. Rabbit: slightly irritant (OECD 404)

Serious eye damage/irritation: Based on available data, the classification criteria are not met. Rabbit: Not an irritant (OECD 405)

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Based on available data, the classification criteria are not met. Guinea pig: not sensitising

Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met.

In-vitro/in-vivo: negative

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

Reproductive toxicity: Repr. 1B; H360FD = May damage fertility. May damage the unborn child.

Effects on fertility, Rat, oral (OECD 421):

NOAEL (P): 250 mg/kg bw/d

NOAEL (F1): 250 mg/kg bw/d

NOAEL (F2): 80 mg/kg bw/d

Developmental toxicity, Rabbit, female, oral (OECD 414):

NOAEL (P): 75 mg/kg bw

LOAEL developmental toxicity: 10 mg/kg bw

Effects on or via lactation: Lack of data.

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

NOAEL Rat, oral: 50 mg/kg (OECD 408)

LOAEL Rat, oral: 500 mg/kg (OECD 408)

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

NOAEL: 50 mg/kg bw/120 d (OECD 408)

Organs affected: liver

Aspiration hazard: Asp. Tox. 1; H304 = May be fatal if swallowed and enters airways.

General remarks

The substance is metabolized and excreted.

Bioaccumulation is unlikely.

Absorption exceeding gastrointestinal tract possible.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

Very toxic to aquatic life with long lasting effects.

Fish toxicity:

LC50 Danio rerio (zebrafish): 0.00005 mg/L/96h

NOEC Leuciscus idus: > 0.46 mg/L/14d

Daphnia toxicity:

EC50 Daphnia magna (Big water flea): > 0.029 mg/L/48h

NOEC Daphnia magna (Big water flea): 0.0014 mg/L/21d

Algae toxicity:

LC50 Skeletonema costatum, growth rate: 0.000016 mg/L/72h

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12.2 Persistence and degradability

Further details: No data available

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:

at 22 °C: $\geq 6 \log P(o/w)$

Based on the n-octanol/water partition coefficient accumulation in organisms is possible.

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6 Other adverse effects

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Recommendation: Do not empty residuals into drain or WC; send to collection for problem waste.
Incinerate according to applicable local, state and federal regulations.

Package

Recommendation: Dispose of waste according to applicable legislation.

SECTION 14: Transport information

14.1 UN number

ADR/RID, IMDG, IATA-DGR: UN 3082

14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR: UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Dibenzylbenzene, ar-methyl derivative)

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14.3 Transport hazard class(es)

ADR/RID: Class 9, Code: M6
IMDG: Class 9, Subrisk -
IATA-DGR: Class 9



14.4 Packing group

ADR/RID: III

14.5 Environmental hazards

Marine pollutant: yes



14.6 Special precautions for user

Land transport (ADR/RID)

Warning board: ADR/RID: Kemmler-number 90, UN number UN 3082
Hazard label: 9
Special Provisions: 274 335 375 601
Limited quantities: 5 L
EQ: E1
Package - Instructions: P001 IBC03 LP01 R001
Package - Special Provisions: PP1
Special provisions for packing together: MP19
Portable tanks - Instructions: T4
Portable tanks - Special Provisions: TP1 TP29
Tank coding: LGBV
Tunnel restriction code: -

Sea transport (IMDG)

EmS: F-A, S-F
Special Provisions: 274 335 969
Limited quantities: 5 L
Excepted quantities: E1
Package - Instructions: P001, LP01
Package - Provisions: PP1
IBC - Instructions: IBC03
IBC - Provisions: -
Tank instructions - IMO: -
Tank instructions - UN: T4
Tank instructions - Provisions: TP2, TP29
Stowage and handling: Category A.
Properties and observations: -
Segregation group: none

Air transport (IATA)

Hazard label: Miscellaneous & Environmentally hazardous
Excepted Quantity Code: E1
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y964 - Max. Net Qty/Pkg. 30 kg G
Passenger and Cargo Aircraft: Pack.Instr. 964 - Max. Net Qty/Pkg. 450 L
Cargo Aircraft only: Pack.Instr. 964 - Max. Net Qty/Pkg. 450 L
Special Provisions: A97 A158 A197 A215
Emergency Response Guide-Code (ERG): 9L

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14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

SECTION 15: Regulatory information

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

National regulations - Great Britain

Hazchem-Code:

•3Z

No data available

National regulations - EC member states

EC-number:

258-649-2

Further regulations, limitations and legal requirements:

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]

Environmental hazards: Code E1, Quantity threshold 100 000 kg / 200 000 kg

Use restriction according to REACH annex XVII, no.: 3 Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: E1

15.2 Chemical Safety Assessment

No data available

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SECTION 16: Other information

Further 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
Aquatic Chronic: Hazardous to the aquatic environment - chronic
AS/NZS: Australian Standards/New Zealand Standards
Asp. Tox.: Aspiration toxicity
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
EC50: Effective Concentration 50%
EN: European Standard
EQ: Excepted quantities
EU: European Union
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
LC0: Lethal concentration 0%
LC50: Median lethal concentration
LD50: Lethal dose 50%
log P(o/w): Partition coefficient: octanol/water
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
M-factor: Multiplication factor
NOAEL: No Observed Adverse Effect Level
NOEC: No Observed Effect Concentration
OECD: Organisation for Economic Co-operation and Development
OSHA: Occupational Safety and Health Administration
PBT: Persistent, bioaccumulative and toxic
PNEC: Predicted no-effect concentration
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
Repr.: Reproductive toxicity
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
TRGS: Technical Rules for Hazardous Substances
UN: United Nations
UV: Ultraviolet
vPvB: Very persistent and very bioaccumulative

Reason of change: General revision

Date of first version: 15/10/2012

Department issuing data sheet

Contact person: see section 1: Department responsible for information

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.