

## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 8/10/2021  
Version: 3.0  
Language: en-GB,IE  
Date of print: 12/10/2021

### Kryo 95

Material number LZB x30

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

### 1.1 Product identifier

Trade name: Kryo 95

This safety data sheet pertains to the following products:

LZB 130: 5 L

LZB 230: 10 L

LZB 330: 20 L

### 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

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Department responsible for information:

Department Quality Management,

Telephone: +49 9343 503-331, e-mail info@lauda.de

### 1.4 Emergency telephone number

GIZ-Nord, Göttingen, Germany,  
Telephone: +49 551-19240

## 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

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### 2.3 Other hazards

Product is combustible. Special danger of slipping by leaking/spilling product.

Results of PBT and vPvB assessment:

This substance meets the PBT/vPvB criteria of REACH, Annex XIII.

## SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

### 3.2 Mixtures

Chemical characterisation: Mixture of the substance mentioned below with non-hazardous additions

Hazardous ingredients:

Ingredient	Designation	Content	Classification
REACH 01-2119517435-42-xxxx EC No. 208-762-8 CAS 540-97-6	Dodecamethylcyclohexasiloxane (SVHC)	< 0.1 %	not classified

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

Additional information: Contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: Dodecamethylcyclohexasiloxane (PBT, vPvB)

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General information: If unconscious place in recovery position and seek medical advice.

In case of inhalation: Move victim to fresh air, put at rest and loosen restrictive clothing. If breathing becomes irregular or ceases, apply rescue breathing or artificial respiration immediately, where required supply oxygen. Seek medical treatment in case of troubles.

Following skin contact: After contact with skin, wash immediately with: water and soap. Take off contaminated clothing and wash it before reuse. 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. Consult an eye specialist in the event of irritation.

After swallowing: Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Seek medical treatment in case of troubles.

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

No data available

### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media: Atomized water, alcohol resistant 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

Flammable liquid.

May form dangerous gases and vapours in case of fire. Furthermore, there may develop:

Formaldehyde, 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:

Hazchem-Code: -

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

You have to dispose of contaminated extinguishing water according to the regulations of the authorities. 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

Provide adequate ventilation. Avoid contact with the substance. Avoid breathing mist/vapours/spray.

Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse.

Keep unprotected people away.

### 6.2 Environmental precautions

Do not allow to penetrate into soil, waterbodies or drains.

### 6.3 Methods and material for containment and cleaning up

Soak up with absorbent materials such as sand, siliceous earth, acid- or universal binder. Store in special closed containers and dispose of according to ordinance.

Ventilate affected area.

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: Provide adequate ventilation, and local exhaust as needed.  
Avoid breathing mist/vapours/spray. Avoid contact with the substance.  
Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse.  
Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

Precautions against fire and explosion:  
Take precautionary measures against static discharges.  
Keep away from sources of ignition - No smoking.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:  
Store in well closed containers in a cool, dry, well-ventilated area.  
Protect from heat and direct sunlight.

Hints on joint storage: Do not store together with oxidizing agents or reducing agents. Keep away from food, drink and animal feedingstuffs.

### 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: Information about Dodecamethylcyclohexasiloxane:  
DNEL workers, short-term, inhalative, local: 6.1 mg/m<sup>3</sup>  
DNEL workers, long-term, inhalative, local: 1.22 mg/m<sup>3</sup>  
DNEL workers, long-term, inhalative, systemic: 11 mg/m<sup>3</sup>  
DNEL consumers, short-term, inhalative, local: 1.5 mg/m<sup>3</sup>  
DNEL consumers, long-term, inhalative, local: 0.3 mg/m<sup>3</sup>  
DNEL consumers, long-term, inhalative, systemic: 2.7 mg/m<sup>3</sup>  
DNEL consumers, short-term, oral, systemic: 1.7 mg/kg KG/d  
DNEL consumers, long-term, oral, systemic: 1.7 mg/kg KG/d

PNEC: Information about Dodecamethylcyclohexasiloxane:  
PNEC sediment (freshwater): 13 mg/kg  
PNEC sediment (marine water): 1.3 mg/kg  
PNEC soil: 3.77 mg/kg  
PNEC sewage treatment plant: 1 mg/L

### 8.2 Exposure controls

Provide adequate ventilation, and local exhaust as needed.

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#### Personal protection equipment

##### Occupational exposure controls

- Respiratory protection: Respiratory protection in case of aerosol or vapour formation  
Use filter type A (= against vapours of organic substances) according to EN 14387.
- Hand protection: Protective gloves according to EN 374. Breakthrough time: >480 min.  
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
- Eye protection: Tightly sealed goggles according to EN 166.
- Body protection: Wear suitable protective clothing.
- General protection and hygiene measures:  
Avoid contact with skin and eyes. Avoid breathing mist/vapours/spray.  
Take off contaminated clothing and wash it before reuse.  
Wash hands before breaks and after work. Protect skin by using skin protective cream.  
When using do not eat, drink or smoke.

#### 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
Odour:	characteristic
Odour threshold:	No data available
pH:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point/flash point range:	64 °C (c.c.)
Evaporation rate:	No data available
Flammability:	No data available
Explosion limits:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Density:	at 25 °C: 0.85 g/mL
Water solubility:	insoluble
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	Measurements taken at temperatures exceeding 150 °C have revealed that a small quantity of formaldehyde splits off through oxidative decomposition.
Viscosity, kinematic:	at 25 °C: 1.5 mm <sup>2</sup> /s
Explosive properties:	Product is not explosive.
Oxidizing characteristics:	No data available

### 9.2 Other information

Additional information: Product has no oxidizing effect.

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

refer to 10.3

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

### 10.4 Conditions to avoid

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

### 10.5 Incompatible materials

oxidizing agents, acids

### 10.6 Hazardous decomposition products

No hazardous decomposition products when regulations for storage and handling are observed. Measurements taken at temperatures exceeding 150 °C have revealed that a small quantity of formaldehyde splits off through oxidative decomposition.

Thermal decomposition:

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Toxicological effects:	<p>The statements are derived from the properties of the single components. No toxicological data is available for the product as such.</p> <p>Acute toxicity (oral): Based on available data, the classification criteria are not met.</p> <p>Acute toxicity (dermal): Based on available data, the classification criteria are not met.</p> <p>Acute toxicity (inhalative): Based on available data, the classification criteria are not met.</p> <p>Skin corrosion/irritation: Based on available data, the classification criteria are not met.</p> <p>Serious eye damage/irritation: Based on available data, the classification criteria are not met.</p> <p>Sensitisation to the respiratory tract: Based on available data, the classification criteria are not met.</p> <p>Skin sensitisation: Based on available data, the classification criteria are not met.</p> <p>Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met.</p> <p>Carcinogenicity: Based on available data, the classification criteria are not met.</p> <p>Reproductive toxicity: Based on available data, the classification criteria are not met.</p> <p>Effects on or via lactation: Lack of data.</p> <p>Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met.</p> <p>Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met.</p> <p>Aspiration hazard: Based on available data, the classification criteria are not met.</p>
Other information:	<p>Measurements taken at temperatures exceeding 150 °C have revealed that a small quantity of formaldehyde splits off through oxidative decomposition.</p> <p>Formaldehyde vapour is harmful by inhalation and irritating to eyes and respiratory system at breathing concentration less than one part per million (1ppm).</p> <p>Information about Dodecamethylcyclohexasiloxane:</p> <p>Acute oral toxicity: LD50, Rat: &gt; 2000 mg/kg</p> <p>Acute dermal toxicity: LD50, Rat: &gt; 2000 mg/kg</p>

## SECTION 12: Ecological information

### 12.1 Toxicity

Aquatic toxicity:	<p>Algae toxicity: EC50 algae: &gt;2 µg/L/72h</p> <p>Fish toxicity: NOEC &gt;14 µg/L/90d</p> <p>Aquatic micro-organisms: EC50 &gt;100 mg/L/3h</p>
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### 12.2 Persistence and degradability

Further details:	No data available
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#### 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:

No data available

#### 12.4 Mobility in soil

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

#### 12.5 Results of PBT and vPvB assessment

This substance meets the PBT/vPvB criteria of REACH, Annex XIII.

#### 12.6 Other adverse effects

General information: Do not allow to penetrate into soil, waterbodies or drains.

## SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

##### Product

Waste key number: 07 02 17 = waste containing silicones other than those mentioned in 07 02 16

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.

## SECTION 14: Transport information

#### 14.1 UN number

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

#### 14.2 UN proper shipping name

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

#### 14.3 Transport hazard class(es)

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

#### 14.4 Packing group

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

#### 14.5 Environmental hazards

Marine pollutant: no

#### 14.6 Special precautions for user

No dangerous good in sense of these transport regulations.

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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:

-

No data available

##### National regulations - EC member states

Further regulations, limitations and legal requirements:

Contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: Dodecamethylcyclohexasiloxane (CAS 540-97-6)

#### 15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

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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  
AS/NZS: Australian Standards/New Zealand Standards  
CAS: Chemical Abstracts Service  
CFR: Code of Federal Regulations  
CLP: Classification, Labelling and Packaging  
DMEL: Derived minimal effect level  
DNEL: Derived no-effect level  
EC50: Effective Concentration 50%  
EC: European Community  
EN: European Standard  
EU: European Union  
IATA: International Air Transport Association  
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%  
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships  
NOEC: No Observed Effect Concentration  
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  
SVHC: Substance of Very High Concern  
vPvB: Very persistent and very bioaccumulative

Reason of change: Changes in section 1: Address

Date of first version: 12/7/2017

### 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.