

Date of issue : 11.08.2011 Replaces Data Sheet of : ---
 "" alterations as compared to previous version; n.ap. = not applicable; n.av. = not available



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

- 1.1 **Product identifier**
Trade Name : LIO Oil 85W-90 GL 5 (SAE 85-80)
Article No. : n.av.
Preparation No. : n.av.
Registration No. : n.av.
- 1.2 **Relevant identified uses of the substance or mixture:**
 Lubricant assistants
- 1.3 **Details of the supplier of the safety data sheet**
- 1.3.1 **Address of the Company / Supplier :**
 ON's Industry Germany Ltd. & Co. KG, Flughafenstraße 52a, D- 22335 Hamburg
 Telefon : +49 – 40-53299172, Telefax : +49 – 40-53299100, E-Mail : info@ons-industrie.com
- 1.3.2 **Verantwortlich für das Datenblatt :**
 Chemie & Vorschrift, Kannheideweg 35, D - 53123 Bonn-Duisdorf, E-Mail : info@chemie-vorschrift.de
- 1.4 **Notrufnummer**
 Notfall - Telefon des Herstellers / Lieferanten: +49 – 40-53299172 (08:30 - 16:30)
 Beratungsstelle für Vergiftungserscheinungen: +49-761-19240

SECTION 2: Hazards identification

- 2.1 **Classification of the substance or mixture**
 Irritant
- 2.2 **Label elements**
 Classification according to EEC - Regulations : Yes.
 Applicable Exemptions : No.
 Hazard Identification : Irritant
 Component(s) : contains: Amines, C12-14-alkyl, reaction products with hexanol, phosphorus oxide, phosphorus sulfide and propylene oxide
- Hazard Symbol(s) :**
- R - Phrases :**
 R 43: May cause sensitization by skin contact.
 R 52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- S - Phrases :**
 S 2 - Keep out of the reach of children.
 S 62 - If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
 S 24/25 - Avoid contact with skin and eyes.
 S 37 - Wear suitable gloves.
 S 61 - Avoid release to the environment. Refer to special instructions/safety data sheets.
- Additional Markings :**
 Contains Alkylamine longchained. May produce an allergic reaction.
- The above mentioned labelling is valid for distribution to private consumer.
- 2.3 **Other hazards**
 Inhalation of vapours in high concentration may cause irritation of respiratory system.
 Solvents may degrease the skin.

SECTION 3: Composition/information on ingredients

| 3.1 Substances | | | | | | | |
|------------------------------------|-------------|-----------|--|-------------|--------|------------------------------|--|
| Chemical Characterisation : | | | | | | | |
| Petroleum products | | | | | | | |
| 3.2 Mixtures | | | | | | | |
| Dangerous Ingredients : | | | | | | | |
| CAS - No. | Index - No. | EEC - No. | Material | m% - range | Symbol | R - phrases | |
| n.v. | n.av. | n.av. | Alkylamine longchained | 0,1 - 0,25% | T, N | R 22-23/24-34-43-48/20-50/53 | |
| n.v. | n.av. | n.av. | Alkenylamine longchained | 0,1 - 1% | C, N | R 22-35-50 | |
| 91745-46-9 | n.av. | 294-716-2 | Amines, C12-14-alkyl, reaction products with hexanol, phosphorus oxide, phosphorus sulfide and propylene oxide | 1 – 2,5% | Xn, N | R 22-41-43-51/53 | |

Trade Name : LiO Oil 85W-90 GL 5 (SAE 85-80)

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SECTION 4: First aid measures**4.1 Description of first aid measures****4.1.1 Inhalation :**

Move to fresh air in case of accidental inhalation of vapours or decomposition products.
If symptoms persist, call a physician.

4.1.2 Skin Contact :

Wash off with warm water and soap. In the case of skin irritation or allergic reactions see a physician.

4.1.3 Eye Contact :

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

4.1.4 Ingestion :

Do not induce vomiting. Rinse mouth. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

Risk of product entering the lungs on vomiting after ingestion.

Aspiration may cause pulmonary oedema and pneumonitis.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures**5.1 Extinguishing media****5.1.1 Suitable Extinguishing Media :**

Use dry chemical, CO₂, water spray or "alcohol" foam.

5.1.2 Extinguishing Media to Avoid :

high volume water jet

5.2 Special hazards arising from the substance or mixture

In the event of fire the following can be released:

Carbon oxides, nitrogen oxides (NO_x), sulphur oxides, oxides of phosphorus.

5.3 Advice for firefighters**5.3.1 Special Protective Equipment :**

Wear positive pressure self-contained breathing apparatus. Wear full protective clothing.

5.3.2 Additional Information :

In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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

Contaminated surfaces will be extremely slippery.

6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

Prevent spreading over a wide area (e.g. by containment or oil barriers).

Soak up with oil absorbent material. Shovel into suitable container for disposal.

6.4 Reference to other sections

None.

SECTION 7: Handling and storage**7.1 Precautions for safe handling****7.1.1 Precautions for Safe Handling :**

Ensure adequate ventilation. Do not breathe spray mist.

7.1.2 Precautions in Case of Fire and Explosion :

Normal measures for preventive fire protection. Do not smoke.

7.2 Conditions for safe storage, including any incompatibilities**7.2.1 Storage Instructions :**

Keep containers tightly closed in a dry, cool and well-ventilated place. Store in original container.

Keep away from heat. Keep away from direct sunlight. Keep at temperatures below 65°C.

7.2.2 Store away from :

Do not store together with oxidizing agents.

7.2.3 Further Information on Storage Conditions :

Avoid subsoil penetration.

7.3 Specific end use(s)

n.av.

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SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

| Material | Limit Value |
|----------|-------------|
|----------|-------------|

8.2 Exposure controls**8.2.1 Appropriate engineering controls**

Avoid contact with skin and eyes.

Remove and wash contaminated clothing before re-use.

When using, do not eat, drink or smoke.

Wash hands before breaks and at the end of workday.

Do not port contaminated cleaning rags in pockets.

Contaminated equipment (brushes, rags) must be cleaned immediately with water.

8.2.2 Individual protection measures**8.2.2a Respiratory**

Breathing apparatus needed only when aerosol or mist is formed.

Protection : Respirator with filter A2, A2P2, ABEK.**8.2.2b Hand Protection :**

Use protective skin cream before handling the product.

Protective gloves (nitrile rubber, neoprene).

As the product is a preparation of several substances, the durability of the glove materials cannot be calculated in advance and has to be tested before use.

The break through time depends amongst other things from the material, the

thickness and the type of glove and therefore has to be measured for each case.

8.2.2c Eye Protection :

Safety glasses

8.2.2d Skin Protection :

n.av.

8.2.3 Environmental exposure controls :

Do not allow material to contaminate ground water system.

Do not flush into surface water or sanitary sewer system.

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

| | | |
|------------------------------------|---------------------|-------------------------------|
| 9.1.1 Form : viscous liquid | Colour : tan | Odour : characteristic |
|------------------------------------|---------------------|-------------------------------|

9.1.2 pH-value, undiluted : n.ap., pH-value, 1% aqueous solution : n.ap.

9.1.3 Boiling point / Boiling - range (°C) : n.av., Melting point / Melting range (°C) : Pourpoint ~ -20

9.1.4 Flash point (°C, c.c.) : > 110,

9.1.5 Flammability (EEC A10/A13) : n.av.

9.1.6 Ignition temperature (°C) : n.av.

9.1.7 Autoflammability (EEC A16) : None.

9.1.8 Oxidising properties : None.

9.1.9 Explosion hazard : None.

9.1.10 Explosion limits (Vol.%) lower : n.av., upper : n.av.

9.1.11 Vapour pressure : n.av.

9.1.12 Density (g/ml) : 0,9 (15°C)

9.1.13 Solubility (in Water) : practically insoluble Soluble in : organic solvent

9.1.14 Partition coefficient, n-Octanol/Water : n.av.

9.1.15 Viscosity : n.av.

9.1.16 Solvent separation test : n.av.

9.1.17 Solvent content (m %) : Not relevant

9.2 Other information

9.2.1 Thermal decomposition (°C) : n.av.

9.2.2 Vapour density (Air = 1) : n.av.

9.2.3 Evaporation rate : n.av.

Trade Name : LiO Oil 85W-90 GL 5 (SAE 85-80)

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SECTION 10: Stability and reactivity

- 10.1 **Reactivity**
None.
- 10.2 **Chemical stability**
Stable under normal conditions.
- 10.3 **Possibility of hazardous reactions**
No dangerous reaction known under conditions of normal use.
- 10.4 **Conditions to avoid**
Protect from frost, heat and sunlight.
- 10.5 **Incompatible materials**
Strong oxidizing agents.
- 10.6 **Hazardous decomposition products**
No decomposition if stored and applied as directed.
To avoid thermal decomposition, do not overheat (65°C).

SECTION 11: Toxicological information

- 11.1 **Information on toxicological effects**
- 11.1.1 **Acute Health Effects :**
Inhalation, LC₅₀ rat, (mg/l/4h) : n.av.
Ingestion, LD₅₀ rat, (mg/kg) : n.av.
Skin - contact, LD₅₀ rat, (mg/kg) : n.av.
Irritation (to skin / eye) : Slight
Sensitisation : May cause sensitization of susceptible persons by skin contact.
- 11.1.2 **Subacute / Chronic Toxicity :**
Carcinogenicity : n.av.
Mutagenicity : n.av.
Teratogenicity : n.av.
Narcotic Effects : None.
- 11.1.3 **Practical Experience**
- 11.1.3.1 Observations relevant for classification :
None.
- 11.1.3.2 Further Observations :
Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.
- 11.1.4 **General Remarks :**
Classification of the preparation has been done by calculation in accordance with EEC directives.

SECTION 12: Ecological information

- 12.1 **Toxicity**
We have no quantitative data concerning the ecological effects of this product.
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 12.2 **Persistence and degradability**
Not readily biodegradable. Inherently biodegradable.
The product is slightly soluble in water. It can be eliminated from water by abiotic processes.
- 12.3 **Bioaccumulative potential**
n.av.
- 12.4 **Mobility in soil**
n.av.
- 12.5 **Results of PBT and vPvB assessment**
n.av.
- 12.6 **Other adverse effects**
- 12.6.1 COD-Value, mg/g : n.av.
- 12.6.2 BOD₅-Value, mg/g : n.av.
- 12.6.3 AOX-Remarks : Not applicable.
- 12.6.4 Significant Components : Hydrocarbons
- 12.6.5 Other adverse effects : Not applicable.

Trade Name : LIQ Oil 85W-90 GL 5 (SAE 85-80)

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SECTION 13: Disposal considerations**13.1 Waste treatment methods**

13.1.1 Recommendation :

Waste - Code - No. : 13 02 05

In addition comply with the regional authorities.

13.2 Contaminated Packaging

13.2.1 Recommendation : Wash with suitable cleaner. Otherwise as described under Residues.

13.2.2 Safe Handling : As described under Residues.

SECTION 14: Transport information

| | ADR | IMDG | IATA |
|------|--|--|--|
| | Not a dangerous substance as defined in the above regulations. | Not a dangerous substance as defined in the above regulations. | Not a dangerous substance as defined in the above regulations. |
| 14.1 | UN number | | |
| 14.2 | UN proper shipping name | | |
| 14.3 | Transport hazard class(es) | | |
| 14.4 | Packing group | | |
| 14.5 | Environmental hazards | | |
| 14.6 | Special precautions for user | | |
| | Transport-category : Classification Code : Hazard - No.: LQ: | | Packing Instructions (Passenger): Packing Instructions (Cargo): |
| 14.7 | Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | | |

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

No data available.

15.2 Chemical safety assessment : None.**SECTION 16: Other information****Text of R - phrases mentioned in Section 3:**

R 22: Harmful if swallowed.

R 23/24: Toxic by inhalation and in contact with skin.

R 34: Causes burns.

R 35: Causes severe burns.

R 41: Risk of serious damage to eyes.

R 43: May cause sensitization by skin contact.

R 48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R 50: Very toxic to aquatic organisms.

R 50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The statements in this Material Safety Data Sheet were made to the best of our knowledge and are as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products.

Prepared by : Chemie & Vorschrift, Kannheideweg 35, D-53123 Bonn-Duisdorf, ☎ +49-228-74 81 824

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