

# Safety Data Sheet

KDS0002EU

according to Regulation(EC)No.1907/2006

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|----------------|------------|----------------------|
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| 28.04.2020     | 04.07.2022 | 28.04.2020           |

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## SECTION 1: Identification of the hazardous chemical and the supplier

### Product identifier

Product name : ULVOIL R-4

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

Use of the Substance/Mixture : Lubricant

Recommended restrictions on use: None known.

### Details of the supplier of the safety data sheet

Company : ULVAC,Inc.

Address : 2500 Hagisono, Chigasaki, Kanagawa,  
253-8543, JAPAN

Telephone : +81-467-89-2158

Emergency telephone number : +81-467-89-2158

Telefax : +81-467-57-0737

E-mail : ulvaccmp\_sds@ml.ulvac.com

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## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

### 2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous ingredients

Remarks : No hazardous ingredients

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**No hazardous ingredients**

| Chemical name            | CAS-No.<br>EC-No.<br>Registration number | Classification | Concentration<br>(% w/w) |
|--------------------------|------------------------------------------|----------------|--------------------------|
| Mineral oil              | -                                        | -              | >= 99                    |
| Lubricating oil additive | -                                        | -              | < 1                      |

Total mineral oil concentration(% w/w) : >= 99

For explanation of abbreviations see section 16.

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**SECTION 4: First aid measures****4.1 Description of first-aid measures**

- General advice : No hazards which require special first aid measures.
- If inhaled : Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion.  
If symptoms persist, call a physician.
- In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off with soap and plenty of water.
- In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.

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

None known.

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

- Treatment : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.
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**SECTION 5: Firefighting measures****5.1 Extinguishing media**

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**5.2 Special hazards arising from the substance or mixture**

- Hazardous combustion products : No hazardous combustion products are known

**5.3 Advice for firefighters**

- Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.
- Further information : Standard procedure for chemical fires.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

### 6.2 Environmental precautions

Environmental precautions : No special environmental precautions required.

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

Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).  
Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8.  
No special handling advice required.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : General industrial hygiene practice.

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

Advice on common storage : No special restrictions on storage with other products.

Storage class (TRGS 510) : 10, Combustible liquids

### 7.3 Specific end use(s)

Specific use(s) : Consult the technical guidelines for the use of this substance/mixture.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components                                                | CAS-No.                                                                                                             | Value type (Form of exposure) | Control parameters  | Basis       |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------|-------------|
| Distillates (petroleum), hydrotreated heavy paraffinic    | 64742-54-7                                                                                                          | AGW (Vapour and aerosols)     | 5 mg/m <sup>3</sup> | DE TRGS 900 |
| Peak-limit category                                       | 4;(II)                                                                                                              |                               |                     |             |
| Further information                                       | When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child |                               |                     |             |
| Distillates (petroleum), solvent-refined heavy paraffinic | 64741-88-4                                                                                                          | AGW (Vapour and aerosols)     | 5 mg/m <sup>3</sup> | DE TRGS 900 |
| Peak-limit category                                       | 4;(II)                                                                                                              |                               |                     |             |
| Further information                                       | When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child |                               |                     |             |

### 8.2 Exposure controls

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**Personal protective equipment**

Eye protection : Safety glasses

Hand protection

Glove thickness :  $\geq 0,3$  mm

Remarks

: Polyvinyl alcohol or nitrile- butyl-rubber gloves The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. Before removing gloves clean them with soap and water.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Skin and body protection : Protective suit

Respiratory protection : No personal respiratory protective equipment normally required.

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

Appearance : transparent

Physical state : liquid

Color : light yellow

Odor : slight

Odor Threshold : No data available

pH : No data available

Freezing point : No data available

Melting point : No data available

Drop point : No data available

Pour point :  $-17,5$  °C

Boiling point : No data available

Flash point :  $248$  °C  
Method: Cleveland open cup

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapor pressure : No data available

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|                                        |                                    |
|----------------------------------------|------------------------------------|
| Relative vapor density                 | : No data available                |
| Relative density                       | : No data available                |
| Density                                | : 0,8598 g/cm <sup>3</sup> (15 °C) |
| Solubility(ies)                        |                                    |
| Water solubility                       | : insoluble                        |
| Partition coefficient: n-octanol/water | : No data available                |
| Autoignition temperature               | : No data available                |
| Decomposition temperature              | : No data available                |
| Viscosity                              |                                    |
| Viscosity, kinematic                   | : 45,51 mm <sup>2</sup> /s (40 °C) |
| Oxidizing properties                   | : No data available                |

## 9.2 Other information

No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under recommended storage conditions.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No hazards to be specially mentioned.

### 10.4 Conditions to avoid

Conditions to avoid : No data available

### 10.5 Incompatible materials

Materials to avoid : Strong bases

### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Not classified based on available information.

#### Skin corrosion/irritation

Not classified based on available information.

#### Product:

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Remarks: According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

**Serious eye damage/eye irritation**

Not classified based on available information.

**Product:**

Remarks: According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

**Respiratory or skin sensitization**

Skin sensitization: Not classified based on available information.

Respiratory sensitization: Not classified based on available information.

**Product:**

Remarks: No data available

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**Reproductive toxicity**

Not classified based on available information.

**STOT-single exposure**

Not classified based on available information.

**STOT-repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

**Further information**

**Product:**

Remarks: No data available

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**SECTION 12: Ecological information**

**12.1 Toxicity**

No data available

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

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## 12.6 Other adverse effects

### **Product:**

Additional ecological information : There is no data available for this product.

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## **SECTION 13: Disposal considerations**

### **13.1 Waste treatment methods**

Product : Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging : Empty remaining contents.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.

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## **SECTION 14: Transport information**

### **14.1 UN number**

Not regulated as a dangerous good

### **14.2 UN proper shipping name**

Not regulated as a dangerous good

### **14.3 Transport hazard class(es)**

Not regulated as a dangerous good

### **14.4 Packing group**

Not regulated as a dangerous good

### **14.5 Environmental hazards**

Not regulated as a dangerous good

### **14.6 Special precautions for user**

Remarks : Not classified as dangerous in the meaning of transport regulations.

### **14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

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## **SECTION 15: Regulatory information**

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

REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59). : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

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REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Not applicable

Seveso II - Directive 2003/105/EC amending Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances

|    |                                                                                                                                                                                                | Quantity 1 | Quantity 2 |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|
| 13 | Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils | 2.500 t    | 25.000 t   |

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.  
Not applicable

Water contaminating class (Germany) : WGK 1 slightly water endangering  
Classification according to AwSV, Annex 1 (5.2)

TA Luft List (Germany) : Total dust:  
Not applicable  
Inorganic substances in powdered form:  
Not applicable  
Inorganic substances in vapor or gaseous form:  
Not applicable  
Organic Substances:  
Not applicable  
Carcinogenic substances:  
Not applicable  
mutagenic:  
Not applicable  
Toxic to reproduction:  
Not applicable

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Not applicable

**The ingredients of this product are reported in the following inventories:**

ENCS : Listed

TSCA : Listed

EINECS : Listed

REACH : For further information, please contact

DSL : Listed

AICS : Listed

KECI : Listed

PICCS : Listed

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|       |          |
|-------|----------|
| IECSC | : Listed |
| TCSI  | : Listed |
| NZIoC | : Listed |

## 15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

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## SECTION 16: Other information

### Full text of other abbreviations

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; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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