

## SAFETY DATA SHEET

WorléeKyd S 351

Product code : 111010-00721  
Date of revision : 12.03.2013.

Version : 2  
Date of printing : 12.03.2013.

**WORLÉE**<sup>®</sup>  
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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Product name : WorléeKyd S 351, 60% in dearomatized hydrocarbons 180-220

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

Use of the substance/mixture : **Industrial/Professional Use:**  
- Formulation and (re)packing of substances and mixtures  
- Uses in Coatings  
- Laboratory use  
**Consumer:**  
- Uses in Coatings

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

Prepared by : Worlée-Chemie G.m.b.H.  
Soellerstrasse 14-16  
D - 21481 Lauenburg  
Tel. +49 (0)4153 596-0  
Fax +49 (0)4153 53649

e-mail address of person responsible for this SDS : MSDS@worlee.de

National contact : E.H. Worlee & Co. UK Ltd.  
Suite 5, 3rd Floor  
GB - Staffordshire ST5 1 EZ  
Tel. +441782-714614

#### 1.4 Emergency telephone number

National advisory body/Poison Centre  
Telephone number : +49 (0)551-19240 (Emergency health information)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

The product is not classified as dangerous according to Directive 1272/2008/EC and its amendments.

Classification according to Directive 1999/45/EC [DPD]

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Human health hazards : Repeated exposure may cause skin dryness or cracking.

See Section 16 for the full text of the R phrases or H statements declared above.  
See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

Hazard pictograms : None assigned.

Signal word : None assigned.

Hazard statements : None assigned.

##### Precautionary statements

Prevention : Not applicable.

Response : Not applicable.

Storage : Not applicable.

Disposal : Not applicable.

Supplemental label elements : Contains phthalic anhydride. May produce an allergic reaction. Safety data sheet available on request.

#### 2.3 Other hazards

Other hazards which do not result in classification

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The product is combustible. Store and use away from heat, sparks, open flame or any other ignition source. In use, may form flammable/explosive vapour-air mixture. Electrostatic charges may be generated during pumping, release of which may cause a fire. The vapour/gas is heavier than air and will spread along the ground. Vapour may travel a considerable distance to source of ignition and flash back. Aspiration hazard if swallowed. Can enter lungs and cause damage. Repeated exposure may cause skin dryness or cracking.

**SECTION 3: Composition/information on ingredients**

Chemical characterisation : Dissolved alkyd resin (mixture)

Product/ingredient name	Identifiers	%	Classification 67/548/EEC	Type
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics  See Section 16 for the full text of the R-phrases declared above.	REACH #: 01-2119457273-39 EC: 918-481-9 CAS: 64742-48-9	30 - 40	Xn; R65 R66	[1]
Product/ingredient name	Identifiers	%	Classification 1272/2008/EC (CLP)	Type
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics  See Section 16 for the full text of the H statements declared above.	REACH #: 01-2119457273-39 EC: 918-481-9 CAS: 64742-48-9	30 - 40	Asp. Tox. 1, H304	[1]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

Occupational exposure limits, if available, are listed in Section 8.

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

- General information** : In all cases of doubt, or when symptoms persist, seek medical attention. If unconscious, place in recovery position and get medical attention immediately. Never give anything by mouth to an unconscious person. In any case show the physician the Safety Data Sheet.
- Eye contact** : Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Begin with medical treatment.
- Inhalation** : Remove affected persons from dangerous area by observing suitable respiratory protection measures. Remove the casualty into fresh air and keep at rest.
- Skin contact** : Take off immediately all contaminated clothing. Wash contaminated clothing before reusing. Do not allow the product to dry on the skin. Wash skin thoroughly with soap and water or use recognised skin cleanser.
- Ingestion** : If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting unless directed to do so by medical personnel. Seek medical attention.

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

- General information** : When inhaled or swallowed depending on the time and amount, it can give rise to the following symptoms: headaches, giddiness, tiredness, nausea, vomiting, irregular heart beat, intoxication, unconsciousness, asphyxiation and fatality.

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

- Notes to physician** : When inhaled or swallowed depending on the time and amount, it can give rise to the following symptoms: headaches, giddiness, tiredness, nausea, vomiting, irregular heart beat, intoxication, unconsciousness, asphyxiation and fatality.

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**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

- Suitable : Extinguishing measures to suit surroundings. In case of fire, use water spray jet, dry extinguishing powder, foam or carbon dioxide.
- Not suitable : water jet.

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

- Hazardous combustion products : In a fire, the following may be released: carbon dioxide, carbon monoxide, not combusted hydrocarbons.

**5.3 Advice for firefighters**

- Special protective equipment for fire-fighters : During fire-fighting wear self-contained breathing apparatus and protective clothing.
- Additional information : Use water spray to keep fire-exposed containers cool. Use extinguishing media suitable for surrounding materials. 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**

- General information : The product is combustible. To avoid fire, eliminate ignition sources. Provide adequate ventilation. Use personal protective equipment. Avoid contact with skin.

**6.2 Environmental precautions**

- General information : Do not discharge into the drains / surface waters / groundwater. Prevent spread over a wide area e.g. by containment or oil barriers.

**6.3 Methods and materials for containment and cleaning up**

- General information : Absorb with liquid-binding material (sand, diatomite, universal binders etc.) or use a spill kit. Containers in which spilt substance has been collected must be adequately labelled. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

**6.4 Reference to other sections**

- General information : See Section 1 for emergency contact information.  
 See Section 8 for information on appropriate personal protective equipment.  
 See Section 13 for additional waste treatment information.

**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

- Protective measures : The product is combustible. Keep away from sources of ignition - No smoking. Vapours may form explosive mixtures with air. Take precautionary measures against electrostatic discharges. Provide good ventilation of working area. The working procedure should be planned as far as allowed by state-of-the-art technology so as to avoid release of hazardous substances or prevent skin contact. The level of risk involved in product handling must be reduced to a minimum by means of protective and preventive measures.

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

- General information : Store in a dry, cool and well-ventilated area. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. Store in accordance with local regulations. Eliminate all ignition sources.

**Packaging materials**

- Recommended : Glass. Stainless steel. Coated steel. Unlined steel.

**7.3 Specific end use(s)**

- Recommendations : Not available.

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

## Occupational exposure limits

No exposure limit value known.

## DNELs/DMELs

No DNELs/DMELs available.

## PNECs

No PNECs available

**8.2 Exposure controls**

## Hygiene measures

: Observe the usual precautions for handling chemicals. When using do not eat, drink or smoke. Use protective skin cream for preventive skin protection. Clean skin thoroughly after work; apply skin cream. If swallowed, do not induce vomiting unless directed to do so by medical personnel.

## Eye/face protection

: Safety goggles with lateral shielding (DIN EN 166)

## Skin protection

: Usual working clothes for the chemical industry, suitable for the job.

## Hand protection

: If there is a potential for product skin contact, use of gloves tested to e.g. EN 374 will provide sufficient protection. Protective gloves should in any case be tested for workplace-specific suitability (e.g. mechanical resistance, product compatibility, antistatic properties). Comply with instructions and information provided by the glove manufacturer concerning use, care and replacement of the gloves. Replace protective gloves immediately upon damage or at the first signs of wear. As far as possible, plan work procedures so that wearing gloves will not be necessary.

Recommended gloves  
 should be made of

: nitrile

Material thickness

: >0,4 mm

Permeation time

: >480 min

## Respiratory protection

: If the occupational exposure limits are exceeded, suitable respiratory protective equipment must be worn. If no occupational exposure limits are defined, sufficiently effective respiratory protective measures must be taken in the presence of aerosols and vapours. Recommended: organic vapour filter (Type A) , organic vapour filter (Type AX)

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

## Appearance

Physical state : Liquid. [Viscous liquid.]

Colour : Yellowish.

Odour : Paraffinic

Boiling point : 180 to 220 °C

Flash point : 62 to 67 °C [Setaflash.]

Explosion limits : Lower: 0,7%  
 Upper: 6%

Oxidising properties : Not oxidising.

Ignition temperature : >200 °C

Vapour pressure : 0,1 kPa [20 °C]

Density : 0,934 g/cm<sup>3</sup> [20 °C]

Efflux time : >90 s [20 °C] [DIN 4]

Solubility in water : Not miscible

**9.2 Other information**

No additional information.

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seit 1851**SECTION 10: Stability and reactivity****10.1 Reactivity**

General information : No specific test data related to reactivity available for this product or its ingredients.

**10.2 Chemical stability**

General information : The product is stable.

**10.3 Possibility of hazardous reactions**

General information : No hazardous reactions when stored and handled according to prescribed instructions.

**10.4 Conditions to avoid**

General information : Store and use away from heat, sparks, open flame or any other ignition source.

**10.5 Incompatible materials**

General information : oxidising agents

**10.6 Hazardous decomposition products**

General information : Thermal disintegration depends to a great extent on the external conditions. A complex mixture of solids, liquids and gases forms in the air, including among other substances carbon dioxide, carbon monoxide and other organic compounds, when this material is burnt or is thermally or oxidatively degraded.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****General information**

Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. High vapour concentrations can cause headaches, dizziness, drowsiness and nausea and may lead to unconsciousness.

**Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	LD50 Oral	Rat	>15000 mg/kg	-

**Acute toxicity estimates**

Not available.

**Irritation/Corrosion**

## Evaluation

Skin : Frequent persistent contact with the skin can cause skin irritation.

Eyes : Non-irritating to the eyes.

**Sensitiser**

## Remarks

Skin : No evidence of sensitizing effects.

Respiratory : No evidence of sensitizing effects.

**Mutagenicity**

## Remarks

: No evidence of mutagenic effects.

**Carcinogenicity**

## Remarks

: No evidence of carcinogenic effects.

**Reproductive toxicity**

## Remarks

: No evidence that the substance is toxic for reproduction.

**Teratogenicity**

## Remarks

: No evidence that the substance may cause birth defects.

**Specific target organ toxicity (single exposure)**

## Remarks

: Not available.

**Specific target organ toxicity (repeated exposure)**

## Remarks

: Not available.

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Product/ingredient name	Result
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	ASPIRATION HAZARD - Category 1

**Potential chronic health effects**

Remarks : Not available.

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

## General information

Do not allow spillage to soil, waterways or waste water canal.

Product/ingredient name	Result	Species	Exposure
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	Acute EC50 >1000 mg/l	Daphnia - Daphnia magna	48 hours

**12.2 Persistence and degradability**

Remarks : Not available.

**12.3 Bioaccumulative potential**

Remarks : Not available.

**12.4 Mobility in soil**Soil/water partition coefficient (K<sub>oc</sub>) : Not available.**12.5 Results of PBT and vPvB assessment**

PBT : Not applicable.

vPvB : Not applicable.

**12.6 Other adverse effects** : No known significant effects or critical hazards.**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

## Product

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Incineration in suitable incineration plant. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

## Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**SECTION 14: Transport information**

	ADR/RID	IMDG	IATA
<b>14.1 UN number</b>	3256	3256	3256
<b>14.2 UN proper shipping name</b>	Elevated temperature liquid, flammable, n.o.s. (hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics )	Elevated temperature liquid, flammable, n.o.s. (hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics)	Elevated temperature liquid, flammable, n.o.s. (hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics)

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<b>14.3 Hazard class</b>	3	3	3
<b>Danger labels and placards</b>			
<b>14.4 Packing group</b>	III	III	III
<b>14.5 Environmental hazards</b>	No.	No.	No.
<b>14.6 Special precautions for user</b>	Not available.	Not available.	Not available.
<b>Additional information</b>	Not available.	Not available.	The product is not subject to national and international transport regulations for road, rail, sea and air at transport temperatures below the flash point.
<b>Special provisions</b>	Not available.		
<b>Classification code</b>	F2		
<b>Transport category</b>	3		
<b>HI/Kemler number</b>	30		
<b>Tunnel code</b>	D/E		
<b>Emergency schedules (EmS)</b>		F-E, S-D	

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Substances of very high concern

Substances mentioned on the so-called "candidate list of substances of very high concern (SVHC) for authorisation" published by the ECHA are not intentionally added to this product. Therefore it is not expected, that these substances are present in amounts of  $\geq 0,1\%$  in this product.


Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Not applicable.

**15.2 Chemical Safety Assessment**

The risk relates to potential for aspiration. The risk relates to the potential for repeated or prolonged dermal contact. The risk arising from contact is solely related to the physico-chemical properties of the substance. The risk can therefore be controlled by implementing risk management measures tailored to this specific hazard and included within Chapter 8 of the SDS. An exposure scenario is not required.

**SECTION 16: Other information**

 Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** : ATE = Acute Toxicity Estimate  
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
 DNEL = Derived No Effect Level  
 EUH statement = CLP-specific Hazard statement  
 PNEC = Predicted No Effect Concentration  
 RRN = REACH Registration Number

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Full text of abbreviated H statements : H304 May be fatal if swallowed and enters airways.

Full text of classifications [CLP/GHS] : Asp. Tox. 1, H304 ASPIRATION HAZARD - Category 1

Full text of abbreviated R phrases : R65- Harmful: may cause lung damage if swallowed.  
R66- Repeated exposure may cause skin dryness or cracking.

Full text of classifications [DSD/DPD] : Xn - Harmful

**Notice to reader**

**This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.**