

SAFETY DATA SHEET**WorléeKyd S 351**Product code : 111010-00751
Date of revision : 15.03.2013.Version : 2
Date of printing : 15.03.2013.**WORLÉE**[®]
seit 1851**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**Product name : **WorléeKyd S 351, 50% in isoparaffinic hydrocarbons 170-200****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.
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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]
Flam. Liq. 3, H226 On basis of test data

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

The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms :

Signal word : Warning
Hazard statements : H226 - Flammable liquid and vapour.

Precautionary statements

Prevention : P280 - Wear protective gloves. Wear eye or face protection.
P210 - Keep away from heat, sparks, open flames and hot surfaces. - No smoking.
P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.
Response : P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.
Rinse skin with water or shower.
Storage : P235 - Keep cool.
Disposal : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements : Contains phthalic anhydride. May produce an allergic reaction. Repeated exposure may cause skin dryness or cracking.

2.3 Other hazards

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Other hazards which do not result in classification

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.

SECTION 3: Composition/information on ingredients

Chemical characterisation : Dissolved alkyd resin (mixture)

Product/ingredient name	Identifiers	%	Classification 67/548/EEC	Type
hydrocarbons, C11-C12, isoalkanes, < 2% aromatics	REACH #: 01-2119472146-39 EC: 918-167-1 CAS: 90622-57-4	40 - 50	Xn; R65 R66	[1]
phthalic anhydride	REACH #: 01-2119457017-41 EC: 201-607-5 CAS: 85-44-9 Index: 607-009-00-4	0.3 - 1	Xn; R22 Xi; R41, R37/38 R42/43	[1] [2]
See Section 16 for the full text of the R-phrases declared above.				

Product/ingredient name	Identifiers	%	Classification 1272/2008/EC (CLP)	Type
hydrocarbons, C11-C12, isoalkanes, < 2% aromatics	REACH #: 01-2119472146-39 EC: 918-167-1 CAS: 90622-57-4	40 - 50	Flam. Liq. 3, H226 Asp. Tox. 1, H304	[1]
phthalic anhydride	REACH #: 01-2119457017-41 EC: 201-607-5 CAS: 85-44-9 Index: 607-009-00-4	0.3 - 1	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335	[1] [2]
See Section 16 for the full text of the H statements declared above.				

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

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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.

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 : Fire will produce dense black smoke containing 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.

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.

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

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

Seveso II Directive - Reporting thresholds (in tonnes)

Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
P5c: Flammable liquids 2 and 3 not falling under P5a or P5b	5000	50000

7.3 Specific end use(s)

Recommendations : Not available.

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

Occupational exposure limits

Product/ingredient name	Exposure limit values
phthalic anhydride	EH40/2005 WELs (United Kingdom (UK), 1/2012). Skin sensitiser. Inhalation sensitiser. STEL: 12 mg/m ³ 15 minutes. TWA: 4 mg/m ³ 8 hours.

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** : Wear protective gloves in cases of prolonged contact (DIN EN 374). 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 : Isoparaffinic

Boiling point : 170 to 200 °C

Flash point : 56 to 60 °C

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Explosion limits	: Lower: 0,6% Upper: 7%
Oxidising properties	: Not oxidising.
Ignition temperature	: >200 °C
Vapour pressure	: 0,1 kPa [20 °C]
Density	: 0,892 g/cm ³ [20 °C]
Efflux time	: >90 s [20 °C] [DIN 4]
Solubility in water	: Not miscible

9.2 Other information

No additional information.

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. Product specific toxicological data are not known.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
hydrocarbons, C11-C12, isoalkanes, < 2% aromatics	LC50 Inhalation Vapour	Rat	>12200 mg/m ³	4 hours
	LD50 Dermal	Rabbit	>3200 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
phthalic anhydride	LD50 Oral	Rat	1530 mg/kg	-

Remarks : Not considered to be toxic to humans.

Acute toxicity estimates

Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
phthalic anhydride	Eyes - Moderate irritant	Rabbit	-	24 hours 50 milligrams	-

Evaluation

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

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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)

Product/ingredient name	Category	Route of exposure	Target organs
phthalic anhydride	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Remarks

: Not available.

Aspiration hazard

Product/ingredient name	Result
hydrocarbons, C11-C12, isoalkanes, < 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. The product is only slightly biodegradable in view of the desired stability.

Product/ingredient name	Result	Species	Exposure
hydrocarbons, C11-C12, isoalkanes, < 2% aromatics	Acute EC50 >1000 mg/l	Daphnia - Daphnia magna	48 hours
	Chronic NOEL >1 mg/l	Daphnia - Daphnia magna	21 days

12.2 Persistence and degradability

Product/ingredient name	Result
hydrocarbons, C11-C12, isoalkanes, < 2% aromatics	31,3 % - 28 days

Remarks

: Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
phthalic anhydride	1,6	-	low

12.4 Mobility in soilSoil/water partition coefficient (K_{oc})

: Not available.

12.5 Results of PBT and vPvB assessment

PBT

: Not applicable.

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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
14.1 UN number	1866	1866	1866
14.2 UN proper shipping name	Resin solution, flammable	Resin solution, flammable	Resin solution, flammable
14.3 Hazard class Danger labels and placards	3 	3 	3 
14.4 Packing group	III	III	III
14.5 Environmental hazards	No.	No.	No.
14.6 Special precautions for user	Not available.	Not available.	Not available.
Additional information	Exempted according to 2.2.3.1.5 (Viscous substance exemption)	Exempted according to 2.3.2.5 (Viscous substance exemption)	Not available.
Special provisions	Not available.		
Classification code	F1		
Transport category	3		
HI/Kemler number	30		
Tunnel code	D/E		
Emergency schedules (EmS)		F-E;S-E	

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seit 1851**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
Full text of abbreviated H statements	: H226 Flammable liquid and vapour. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation.
Full text of classifications [CLP/GHS]	: Acute Tox. 4, H302 ACUTE TOXICITY: ORAL - Category 4 Asp. Tox. 1, H304 ASPIRATION HAZARD - Category 1 Eye Dam. 1, H318 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 Flam. Liq. 3, H226 FLAMMABLE LIQUIDS - Category 3 Resp. Sens. 1, H334 RESPIRATORY SENSITIZATION - Category 1 Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2 Skin Sens. 1, H317 SKIN SENSITIZATION - Category 1 STOT SE 3, H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Respiratory tract irritation] - Category 3
Full text of abbreviated R phrases	: R22- Harmful if swallowed. R65- Harmful: may cause lung damage if swallowed. R41- Risk of serious damage to eyes. R37/38- Irritating to respiratory system and skin. R42/43- May cause sensitisation by inhalation and skin contact. R66- Repeated exposure may cause skin dryness or cracking.
Full text of classifications [DSD/DPD]	: Xn - Harmful Xi - Irritant

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.