AFETY DATA SHEET			I	Vorlée
/orléeKyd S 6003 hv	44004 00005	Maraian	<u>/</u>	
	111021-03865 15.02.2013.	Version Date of printing	: 2 : 15.02.2013.	seit 1851
ECTION 1: Identification	on of the substance/mixtu	ire and of the compan	v/undertaking	
.1 Product identifier			.,	
Product name	: WorléeKyd S 6003 hv, 509	% in dearomatized hydroc	arbons 160-200	
.2 Relevant identified uses	of the substance or mixture a	nd uses advised against		
Use of the substance/mixture	e: Raw materials for coatings,	sealants and adhesives.		
Identified uses				
1) Formulation and (re)packi	ing of substances and mixtures	preparations* at indu Formulation [mixing]	of substances as suc Istrial sites of preparations and/or	
2) Uses in Coatings		(excluding alloys) Industrial uses: Uses preparations* at indu	s of substances as suc	h or in
3) Use in laboratories			s of substances as suc	h or in
4) Uses in Coatings			ublic domain (adminis	ration, education,
5) Use in laboratories			ublic domain (adminis	ration, education,
6) Uses in Coatings			vate households (= ger	neral public =
.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 Fox +40 (0)4152 52640			
e-mail address of person responsible for this SDS	Fax +49 (0)4153 53649 : MSDS@worlee.de			
National contact	: E.H. Worlee & Co. UK Ltd. Suite 5, 3rd Floor GB - Staffordshire ST5 1 E. Tel. +441782-714614	z		
.4 Emergency telephone n	umber			
National advisory body/Poise	on Centre			
Telephone number	: +49 (0)551-19240 (Emerge	ncy health information)		
ECTION 2: Hazards ide	entification			
.1 Classification of the sub	stance or mixture			
Classification according to R Flam. Liq. 3, H226 STOT SE 3, H336	egulation (EC) No. 1272/2008 [(On basis of test of Calculation methor	lata		
•	as dangerous according to Dire	ctive 1999/45/EC and its an	nendments.	
Physical/chemical hazards Human health hazards	Flammable.Repeated exposure may ca	ause skin dryness or crackir	ng. Vapours may caus	e drowsiness and
	dizziness.	See Section 16 for the full	text of the R phrases or H s e detailed information on he	tatements declared abov
.2 Label elements				
Hazard pictograms	· ^ ^			

Signal word

: Warning

Conforms to Regulation (EC) I	No. 1907/2006 (RE	ACH), Annex	II - United Kingdom (U	K)			
SAFETY DATA SHEET	SAFETY DATA SHEET WODI ÓD						
WorléeKyd S 6003 hv						<u>Worlée</u> ®	
	111021-03865 15.02.2013.		Version Date of printing	-	2 15.02.2013.	seit 1851	
Hazard statements	: H226 - Flamm H336 - May ca		d vapour. ess or dizziness.				
Precautionary statements							
Prevention	P210 - Keep a	way from hea	ves. Wear eye or face p at, sparks, open flames electrical, ventilating, li	and hot s	urfaces No si		
Response	for breathing. P303 + P361 -	304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable or breathing. 303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. inse skin with water or shower.					
Storage	: P235 - Keep c	ool.					
Disposal	: P501 - Disposi international re		and container in accord	dance with	n all local, regio	onal, national and	
Hazardous ingredients	: hydrocarbons,	C9-C11, n-a	lkanes, isoalkanes, cycl	lics, < 2%	aromatics		
Supplemental label elements	: Contains phtha	alic anhydride	e. May produce an aller	rgic reacti	on.		

2.3 Other hazards

Other hazards which do not result in classification

The product is flammable. Keep away from excessive heat, sparks or open fire. In use, may form flammable/explosive vapourair 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)

			Classification	
Product/ingredient name	Identifiers	%	67/548/EEC	Туре
hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	REACH #: 01-2119463258-33 EC: 919-857-5 CAS: 64742-48-9 Index: 649-327-00-6	40 - 50	R10 Xn; R65 R66, R67	[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.				
			Classification	
Product/ingredient name	Identifiers	%	1272/2008/EC (CLP)	Туре
hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	REACH #: 01-2119463258-33 EC: 919-857-5 CAS: 64742-48-9 Index: 649-327-00-6	40 - 50	Flam. Liq. 3, H226 STOT SE 3, H336 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. <u>Type</u>

Conforms to Regulati	on (EC) No. 1907/2006 (REACH)	, Annex II - United Kingdom (UK)		
SAFETY DATA S	HEET			Worlée®
WorléeKyd S 6003 h	IV			<u>WORLEE</u>
Product code	: 111021-03865	Version	: 2	seit 1851
Date of revision	: 15.02.2013.	Date of printing	: 15.02.2013.	5010 1001
[1] Substance classified wi	th 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.

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	g from the substance or mixture
Hazardous combustion products	: In a fire, the following may be released: carbon dioxide, carbon monoxide, not combusted hydrocarbons.

5.2. Advice for firefishters

5.3 Advice for firefighters Special protective equipment for fire-fighters	: During fire-fighting wear self-contained breathing apparatus and protective clothing.
Additional information	: The product is flammable. 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	: To avoid fire, eliminate ignition sources. Provide adequate ventilation. Use personal protective equipment. Avoid contact with skin.
6.2 Environmental precaut	ions
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

SAFETY DATA SHE	ET			Worth
WorléeKyd S 6003 hv				WORLÉE
Product code Date of revision	: 111021-03865 : 15.02.2013.	Version Date of printing	: 2 : 15.02.201	seit 1851 3.
General information	Containers in which s this product, solutions	nding material (sand, diatomite, spilt substance has been collect s and any by-products should at tion and waste disposal legislati	ed must be adequa t all times comply w	tely labelled. Disposal o ith the requirements of
6.4 Reference to other s	sections			
General information	See Section 8 for info	ergency contact information. ormation on appropriate persona dditional waste treatment inform		ient.
SECTION 7: Handlir				
7.1 Precautions for safe	handling			
	Take precautionary n working area. The wo technology so as to a	rces of ignition - No smoking. Vaneasures against electrostatic dorking procedure should be plan avoid release of hazardous subsuct handling must be reduced to .	ischarges. Provide ned as far as allow tances or prevent s	good ventilation of ed by state-of-the-art kin contact. The level of
7.2 Conditions for safe	storage, including any incom	patibilities		
General information	for use. Containers the prevent leakage. Do	nd well-ventilated area. Keep con nat have been opened must be of not store in unlabelled container nination. Store in accordance w	carefully resealed a rs. Use appropriate	nd kept upright to containment to avoid
Packaging materials			-	
Recommended	: Glass. Stainless stee	I. Coated steel. Unlined steel.		
Seveso II Directive - Re	porting thresholds (in tonnes)			
Danger criteria				
Category		Notification threshold	and MAPP Sa	fety report threshold
P5c: Flammable liquid C6: Flammable (R10)	ls 2 and 3 not falling under P5a	a or P5b 5000 5000		000 000
7.3 Specific end use(s) Recommendations	: Not available.			

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

Product/ingredient name	Туре	Exposure	Value	Population	Effects
hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	DNEL	Long term Dermal	208 mg/kg bw/ day	Workers	Systemic
	DNEL	Long term Inhalation	871 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	125 mg/kg bw/ day	Consumers	Systemic
	DNEL	Long term Inhalation	900 mg/m ³	Consumers	Systemic
	DNEL	Long term Oral	125 mg/kg bw/ day	Consumers	Systemic

Conforms to Regulation (E	C) No. 1907/2006 (RE	ACH), Annex II - United Kingdom (UK))	
SAFETY DATA SHEE	T			
WorléeKyd S 6003 hv				WORLEE
Product code Date of revision	: 111021-03865 : 15.02.2013.	Version Date of printing	: 2 : 15.02.2013.	seit 1851
PNECs No PECs available.				
8.2 Exposure controls				
Hygiene measures		usual precautions for handling chemica e skin cream for preventive skin protec		
Eye/face protection	: Safety goggle	es with lateral shielding (DIN EN 166)		
Skin protection	: Usual working	g clothes for the chemical industry, suit	table for the job.	
Hand protection	sufficient prot suitability (e.g instructions a replacement o	otential for product skin contact, use of ection. Protective gloves should in any j. mechanical resistance, product comp nd information provided by the glove m of the gloves. Replace protective glove . As far as possible, plan work procedu	v case be tested for wor patibility, antistatic prop nanufacturer concerning is immediately upon dat	kplace-specific erties). Comply with g use, care and mage or at the first
Recommended gloves should be made of	s : 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

5.1 mormation on basic phys	sical and chemical properties
Appearance	
Physical state	: Liquid. [Viscous liquid.]
Colour	: Yellowish.
Odour	: Paraffinic
Boiling point	: 160 to 200 °C
Flash point	: 35 to 40 °C
Explosion limits	: Lower: 0,6% Upper: 7%
Oxidising properties	: Not oxidising.
Ignition temperature	: >200 °C
Vapour pressure	: 0,21 kPa [20 °C]
Density	: 0,894 g/cm ³ [23 °C]
Viscosity	: 6000 to 8000 mPa*s [20 °C] [Höppler]
Solubility in water	: Not miscible

9.2 Other information

No additional information.

SECTION 10: Stability	y 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 hazard	ous reactions
General information	: No hazardous reactions when stored and handled according to prescribed instructions.
40.4 Conditions to sucid	

10.4 Conditions to avoid

Conforms to Regulation		, Annex II - United Kingdom (UK)		X 7 / ®
WorléeKyd S 6003 hv				<u>Worlée</u> ®
Product code Date of revision	: 111021-03865 : 15.02.2013.	Version Date of printing	: 2 : 15.02.2013.	seit 1851
General information	: The product is flamm	nable. Keep away from excessive	e heat, sparks or open	fire.
10.5 Incompatible ma				

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, C9-C11, n- alkanes, isoalkanes, cyclics, < 2% aromatics	LD50 Dermal	Rabbit	>5000 mg/kg	-
phthalic anhydride	LD50 Oral LD50 Oral		>5000 mg/kg 1530 mg/kg	-

Acute toxicity estimates

Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	e Observation
phthalic anhydride	Eyes - Moderate irritant	Rabbit	-	24 hours 50 milligrams	-
Evaluation					
Skin	: Frequent persistent contact with	the skin can cause	skin irritatio	on.	
Eyes	: May cause mild eye irritation.				
Sensitiser					
Remarks					
Skin	: No evidence of sensitizing effec	ts.			
Respiratory	: No evidence of sensitizing effec	ts.			
Mutagenicity					
Remarks	: No evidence of mutagenic effect	ts.			
Carcinogenicity					
Remarks	: No evidence of carcinogenic eff	ects.			
Reproductive toxicity					
Remarks	: No evidence that the substance	is toxic for reproduc	ction.		
Teratogenicity					
Remarks	: No evidence that the substance	may cause birth de	fects.		
Specific target organ toxicity	(single exposure)				
Product/ingre	dient name	Category	Rou expo	te of osure	Target organs
hydrocarbons, C9-C11, n-alka aromatics	nes, isoalkanes, cyclics, < 2%	Category 3	Not appl	icable.	Narcotic effects
phthalic anhydride		Category 3	Not appl		Respiratory tract rritation

Specific target organ toxicity (repeated exposure) Remarks

: Not available.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - United Kingdom (UK) SAFETY DATA SHEET WorléeKyd S 6003 hv Product code : 111021-03865 Date of revision : 15.02.2013. Aspiration hazard Product/ingredient name Result

Flouckingredient hame	Result
hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	ASPIRATION HAZARD - Category 1

Potential chronic health effects

Remarks : Not available.

SECTION 12: Ecological information

12.1 Toxicity

Remarks

General information

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

Product/ingredient name	Result	Species	Exposure
hydrocarbons, C9-C11, n- alkanes, isoalkanes, cyclics, < 2% aromatics	Acute IC50 >1000 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	0	, , , , , , , , , , , , , , , , , , ,	96 hours 72 hours

: No known significant effects or critical hazards.

12.2 Persistence and degradability

Product/ingredient name	Result
hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	80 % - 28 days
	where the late is a set of the section of a table 1996 a

Remarks : The polymer is only slightly biodegradable in view of the desired stability.

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
hydrocarbons, C9-C11, n- alkanes, isoalkanes, cyclics, < 2% aromatics	5 to 6.7	-	high
phthalic anhydride	1,6	-	low

12.4 Mobility in soil

Soil/water partition : Not available. coefficient (K_{oc})

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

Ploduci	
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.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - United Kingdom (UK) SAFETY DATA SHEET WorléeKyd S 6003 hv Product code : 111021-03865 Date of revision : 15.02.2013. Version : 2 seit 1851

SECTION 14: Transport information

	ADR/RID	IMDG	ΙΑΤΑ
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	3	3	3
Danger labels and placards			
14.4 Packing group	ш	111	Ш
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	640 E		
Classification code	F1		
Transport category	3		
HI/Kemler number	30		
Tunnel code	D/E		
Emergency schedules (EmS)		F-E;S-E	

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

This product contains substances for which Chemical Safety Assessments are still required.

Conforms to Regulation (EC)) No. 1907/2006 (REACH), A	nnex II - United Kingdom (UK)		
SAFETY DATA SHEET			T	
WorléeKyd S 6003 hv				<u>Vorlée</u>
	111021-03865 15.02.2013.	Version Date of printing	: 2 : 15.02.2013.	seit 1851
SECTION 16: Other inf	ormation			
Indicates information that	t has changed from previousl	y issued version.		
Abbreviations and acronyms	CLP = Classification, L DNEL = Derived No Eff	abelling and Packaging Regula ect Level specific Hazard statement Effect Concentration	ation [Regulation (EC)	No. 1272/2008]
Full text of abbreviated H statements	: H226 Flammable I H302 Harmful if sv H304 May be fatal H315 Causes skin H317 May cause a H318 Causes seri H334 May cause a H335 May cause r	iquid and vapour. vallowed. if swallowed and enters airwa		inhaled.
Full text of classifications [CLP/GHS]	: Acute Tox. 4, H302 Asp. Tox. 1, H304 Eye Dam. 1, H318 Flam. Liq. 3, H226 Resp. Sens. 1, H334 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335 STOT SE 3, H336	ACUTE TOXICITY: OR ASPIRATION HAZARE SERIOUS EYE DAMAG FLAMMABLE LIQUIDS RESPIRATORY SENS SKIN CORROSION/IR SKIN SENSITIZATION SPECIFIC TARGET O [Respiratory tract irritat SPECIFIC TARGET O [Narcotic effects] - Cat	D - Category 1 GE/ EYE IRRITATION 5 - Category 3 ITIZATION - Category 2 ITATION - Category 2 - Category 1 RGAN TOXICITY (SING ion] - Category 3 RGAN TOXICITY (SING	1 2 GLE EXPOSURE)
Full text of abbreviated R phrases	R41- Risk of serious da R37/38- Irritating to res R42/43- May cause ser R66- Repeated exposu	ved. se lung damage if swallowed.	in contact.	
Full text of classifications [DSD/DPD] Notice to reader	: 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.

Conforms to Regulati	on (EC) No. 1907/2006 (REACH),	Annex II		
Annex to the exte	ended Safety Data Sheet (e	SDS)	7	Worlée®
WorléeKyd S 6003 h	IV			<u>WORLEE</u>
Product code	: 111021-03865	Version	: 2	seit 1851
Date of revision	: 15.02.2013.	Date of printing	: 15.02.2013.	5510 1001

Industrial

hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Section 1: - Title	
Use Descriptor	 Identified use name: Formulation and (re)packing of substances and mixtures Process Category: PROC01, PROC02, PROC03, PROC04, PROC05, PROC08a, PROC08b, PROC09, PROC14, PROC15 Substance supplied to that use in form of: In a mixture Sector of end use: SU03, SU10 Subsequent service life relevant for that use: No. Environmental Release Category: ERC02
Health Contributing Scenarios	 General exposures (closed systems) - PROC01, PROC02, PROC03 General exposures (open systems) - PROC04 Operation is carried out at elevated temperature (> 20°C above ambient temperature) PROC03 Process sampling - PROC03 Laboratory activities - PROC15 Material transfers - PROC08b Mixing operations (open systems) - PROC05 Transfer from/pouring from containers - PROC08a Drum/batch transfers - PROC08b Production of preparation or articles by tabletting, compression, extrusion or pelletisation - PROC14 Clean-down and maintenance of equipment - PROC08a Storage - PROC01, PROC02
Processes and activities covered by the exposure scenario	: Formulation, packing and re-packing of the substance and its mixtures in batch or continuous operations, including storage, materials transfers, mixing, tabletting, compression, pelletisation, extrusion, large and small scale packing, sampling, maintenance and associated laboratory activities.

Section 2: - Exposure Scenarios

2.1 Control of environmental exposure

No exposure assessment presented for the environment.

2.2 Control of worker exposure

Concentration of substance in mixture or article	:	Covers percentage substance in the product up to 100% (unless stated differently).
Physical state	:	Liquid, vapour pressure < 0.5 kPa at STP.
Frequency and duration of use	:	Covers daily exposures up to 8 hours (unless stated differently).
Other given operational conditions affecting workers exposure	:	Assumes a good basic standard of occupational hygiene has been implemented Assumes use at not more than 20°C above ambient temperature, unless stated differently.

Contributing exposure scenario controlling worker exposure

General exposures (closed systems)

Process control measures	: Undertake operation in enclosed conditions.
Product safety-related measures	 Recommended gloves should be made of: Nitrile. Material thickness: > 0.4 mm Permeation time: > 480 min Eye protection: Safety goggles with lateral shielding (DIN EN 166) If technical extraction or ventilation is not possible or inadequate, respiratory protection must be
	worn. Wear a respirator conforming to EN140 with Type A filter or better.

Annex to the extended			nnex II DS)		
WorléeKyd S 6003 hv			-,		WORLEE
Product code :	1110	21-03865	Version	: 2	seit 1851
Date of revision :	15.0	2.2013.	Date of printing	: 15.02.2013.	
General exposures (open s	yster	ns)			
Process control measures	:	No other specific meas	ures identified.		
Product safety-related measures	:	Recommended gloves Material thickness: > 0 Permeation time: > 480			
		Eye protection: Safety	goggles with lateral shielding (DIN EN 166)	
		worn.	or ventilation is not possible or borning to EN140 with Type A f		ry protection must be
Operation is carried out at o	eleva	ted temperature (> 20	°C above ambient temperatu	re).	
Process control measures	:	Formulate in enclosed	or ventilated mixing vessels.		
Product safety-related measures	:	Recommended gloves Material thickness: > 0 Permeation time: > 480			
		Eye protection: Safety	goggles with lateral shielding (DIN EN 166)	
		worn.	or ventilation is not possible or i		ry protection must be
		wear a respirator com	orming to EN140 with Type A f	liter of better.	
Process sampling					
Process control measures	:	No other specific meas	ures identified.		
Product safety-related measures	:	Recommended gloves Material thickness: > 0 Permeation time: > 480			
		Eye protection: Safety	goggles with lateral shielding (DIN EN 166)	
		worn.	or ventilation is not possible or or contract of presence of the contract of t	• • •	ry protection must be
Laboratory activities					
Process control measures	:	No other specific meas	ures identified.		
Product safety-related measures	:	Recommended gloves Material thickness: > 0 Permeation time: > 480			
		Eye protection: Safety	goggles with lateral shielding (DIN EN 166)	
		worn.	or ventilation is not possible or i		ry protection must be
Material transfers					
Process control measures	:	No other specific meas	ures identified.		
Product safety-related measures		•	should be made of: Nitrile. .4 mm		
		Eye protection: Safety	goggles with lateral shielding (DIN EN 166)	
		If technical extraction c worn.	or ventilation is not possible or	inadequate, respirato	ry protection must be

Annex to the extended	Safety Data Sheet (e	SDS)	T	Von
WorléeKyd S 6003 hv	• · ·			WORLE
Product code : Date of revision :	111021-03865 15.02.2013.	Version Date of printing	: 2 : 15.02.2013.	seit 1851
Mixing operations (open sy		g	10102120101	
Process control measures	: No other specific me	asuras identified		
Product safety-related	•	es should be made of: Nitrile.		
measures	Material thickness: > Permeation time: > 4	• 0.4 mm		
	Eye protection: Safe	ty goggles with lateral shielding (DIN EN 166)	
	worn.	n or ventilation is not possible or i informing to EN140 with Type A f		r protection must be
Transfer from/pouring from	o containers			
Process control measures	: No other specific me	asures identified.		
Product safety-related measures		es should be made of: Nitrile.		
		ty goggles with lateral shielding (
	worn.	n or ventilation is not possible or i		protection must be
	Wear a respirator co	nforming to EN140 with Type A f	ilter or better.	
Drum/batch transfers				
Process control measures	: No other specific me			
Product safety-related measures	: Recommended glov Material thickness: > Permeation time: > 4			
	Eye protection: Safe	ty goggles with lateral shielding (DIN EN 166)	
	worn.	n or ventilation is not possible or i		v protection must be
	vvear a respirator co	nforming to EN140 with Type A f	liter or better.	
		compression, extrusion or pelle	etisation	
Process control measures	: No other specific me			
Product safety-related measures	: Recommended glov Material thickness: > Permeation time: > 4			
	Eye protection: Safe	ty goggles with lateral shielding (DIN EN 166)	
		n or ventilation is not possible or i	inadequate, respiratory	protection must be
	worn. Wear a respirator co	nforming to EN140 with Type A f	ilter or better.	
Clean-down and maintenar	nce of equipment			
Process control measures	: No other specific me	asures identified.		
Product safety-related measures	: Recommended glov Material thickness: > Permeation time: > 4			
	Eye protection: Safe	ty goggles with lateral shielding (DIN EN 166)	
	If technical extractio worn.	n or ventilation is not possible or i	inadequate, respiratory	v protection must be
		nforming to EN140 with Type A f	ilter or better.	

12/33

Conforms to Regulat	on (EC) No. 1907/2006 (REACH),	Annex II		
Annex to the ext	ended Safety Data Sheet (e	SDS)	T	Vorlée ®
WorléeKyd S 6003 h	IV			WORLEE
Product code Date of revision	: 111021-03865 : 15.02.2013.	Version Date of printing	: 2 : 15.02.2013.	seit 1851
Storage				
Process control meas	sures : Store substance with	in a closed system.		

Section 3: - Exposure estimation and reference to its source

Exposure estimation and reference to its source - Environment

Exposure assessment (environment)	: No exposure assessment presented for the environment.
Exposure estimation a	nd reference to its source - Workers
Exposure assessment (human)	: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Section 4: - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment	: No exposure assessment presented for the environment.
Health	 Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Risk Management Measures are based on qualitative risk characterisation. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Conforms to Regulati	on (EC) No. 1907/2006 (REACH),	Annex II		
Annex to the exte	ended Safety Data Sheet (e	SDS)		Worlée®
WorléeKyd S 6003 hv				<u>WORLEE</u>
Product code	: 111021-03865	Version	: 2	seit 1851
Date of revision	: 15.02.2013.	Date of printing	: 15.02.2013.	

Industrial

hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Section 1: - Title	
Use Descriptor	 Identified use name: Uses in Coatings Process Category: PROC01, PROC02, PROC03, PROC04, PROC05, PROC07, PROC08a, PROC08b, PROC09, PROC10, PROC13, PROC14, PROC15 Substance supplied to that use in form of: In a mixture Sector of end use: SU03 Subsequent service life relevant for that use: No. Environmental Release Category: ERC04
Health Contributing Scenarios	 General exposures (closed systems) - PROC01 General exposures (closed systems) with sample collection - PROC02, PROC03 Film formation - force drying, stoving and other technologies - Operation is carried out at elevated temperature (> 20°C above ambient temperature) PROC02 Mixing operations (closed systems) - PROC03 Film formation - air drying - PROC04 Mixing operations (open systems) - PROC05 Spraying (automatic/robotic) - PROC07 Spraying/fogging by manual application - PROC07 Material transfers - PROC08a, PROC08b Roller, spreader, flow application - PROC10 Dipping, immersion and pouring - PROC13 Laboratory activities - PROC15 Transfer from/pouring from containers - PROC09 Production of preparation or articles by tabletting, compression, extrusion or pelletisation - PROC14 Equipment cleaning and maintenance - PROC08a Storage - PROC01
Processes and activities covered by the exposure scenario	: Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, spreader, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities.

Section 2: - Exposure Scenarios

2.1 Control of environmental exposure

No exposure assessment presented for the environment.

2.2 Control of worker exposure

Concentration of substance in mixture or article	:	Covers percentage substance in the product up to 100% (unless stated differently).	
Physical state	:	Liquid, vapour pressure < 0.5 kPa at STP.	
Frequency and duration of use	:	Covers daily exposures up to 8 hours (unless stated differently).	
Other given operational conditions affecting workers exposure	:	Assumes use at not more than 20°C above ambient temperature, unless stated differently. Assumes a good basic standard of occupational hygiene has been implemented	
Contributing exposure scenario controlling worker exposure			

General exposures (closed systems)

Process control measures : Undertake operation in enclosed conditions.

Conforms to Regulation (EC) Annex to the extended					W 7. /
WorléeKyd S 6003 hv		-,	,		WORLEE
Product code :	-	21-03865 2.2013.	Version Date of printing	: 2 : 15.02.2013.	seit 1851
General exposures (closed	l syste	ems) with sample c	ollection		
Process control measures	:	Store substance with	nin a closed system.		
Product safety-related measures		Recommended glove Material thickness: > Permeation time: > 4			
		Eye protection: Safe	ty goggles with lateral shielding	(DIN EN 166)	
		worn.	n or ventilation is not possible or		bry protection must be
Film formation - force dryir above ambient temperature		oving and other tecl	hnologies - Operation is carrie	d out at elevated ter	nperature (> 20°C
Process control measures	:	Store substance with	nin a closed system.		
Product safety-related measures	-	Recommended glove Material thickness: > Permeation time: > 4	-		
		Eye protection: Safe	ty goggles with lateral shielding	(DIN EN 166)	
		If technical extraction worn.	n or ventilation is not possible or	inadequate, respirato	ory protection must be
		Wear a respirator co	onforming to EN140 with Type A	filter or better.	
Mixing operations (closed	systei	ns)			
Process control measures	:	Undertake operation	in enclosed conditions.		
Product safety-related measures	-	Recommended glove Material thickness: > Permeation time: > 4			
		Eye protection: Safe	ty goggles with lateral shielding	(DIN EN 166)	
		worn.	n or ventilation is not possible or onforming to EN140 with Type A t		bry protection must be
Film formation - air drying					
Process control measures	:	No other specific me	easures identified.		
Product safety-related measures		Recommended glove Material thickness: > Permeation time: > 4			
		Eye protection: Safe	ty goggles with lateral shielding	(DIN EN 166)	
		If technical extraction worn.	n or ventilation is not possible or	inadequate, respirato	ory protection must be
		Wear a respirator co	onforming to EN140 with Type A	filter or better.	
Mixing operations (open sy	ystem	s)			
Process control measures	:	No other specific me	easures identified.		
Product safety-related measures		Recommended glove Material thickness: > Permeation time: > 4			
		Eye protection: Safe	ty goggles with lateral shielding	(DIN EN 166)	
		worn.	n or ventilation is not possible or		ory protection must be
		Wear a respirator co	onforming to EN140 with Type A	filter or better.	

	Safety Data Sheet (e	503)		Νορι ήτ
WorléeKyd S 6003 hv				WORLER
	111021-03865 15.02.2013.	Version Date of printing	: 2 : 15.02.2013.	seit 1851
Spraying (automatic/roboti	c)			
Process control measures	: No other specific me	asures identified.		
Product safety-related measures		es should be made of: Nitrile. 0.4 mm		
	Eye protection: Safet	y goggles with lateral shielding (DIN EN 166)	
	worn.	n or ventilation is not possible or i nforming to EN140 with Type A f		protection must be
Spraying/fogging by manua	al application			
Process control measures	: No other specific me	asures identified.		
Product safety-related measures	· ·	es should be made of: Nitrile. 0.4 mm		
	Eye protection: Safet	y goggles with lateral shielding (DIN EN 166)	
	worn.	n or ventilation is not possible or i		protection must be
	Wear a respirator co	nforming to EN140 with Type A f	ilter or better.	
Material transfers				
Process control measures Product safety-related measures	 No other specific mean Recommended glove Material thickness: > Permeation time: > 4 	es should be made of: Nitrile. 0.4 mm		
	Eye protection: Safet	y goggles with lateral shielding (DIN EN 166)	
	worn.	n or ventilation is not possible or i nforming to EN140 with Type A f		protection must be
Roller, spreader, flow appli		0 ,1		
Process control measures	: No other specific me	asures identified.		
Product safety-related measures	•	es should be made of: Nitrile. 0.4 mm		
	Eye protection: Safet	y goggles with lateral shielding (DIN EN 166)	
	If technical extractior worn.	n or ventilation is not possible or i	inadequate, respiratory	protection must be
		nforming to EN140 with Type A f	ilter or better.	
Dipping, immersion and po	ouring			
Process control measures	: No other specific me	asures identified.		
Product safety-related measures	: Recommended glove Material thickness: > Permeation time: > 4			
	Eye protection: Safet	y goggles with lateral shielding (DIN EN 166)	
	worn.	n or ventilation is not possible or i		protection must be
	Wear a respirator co	nforming to EN140 with Type A f	ilter or better.	

Date of revision :		Joj		Nont fr
Product code : Date of revision :	444004 00005			/V()KI.F:F:
Date of revision :	11111111111111111111111111111111111111	Version	: 2	
	111021-03865 15.02.2013.	Date of printing	: 15.02.2013.	seit 1851
Laboratory activities				
Process control measures	: No other specific meas	ures identified.		
Product safety-related measures	: Recommended gloves Material thickness: > 0. Permeation time: > 480			
	Eye protection: Safety	goggles with lateral shielding (DIN EN 166)	
	worn.	r ventilation is not possible or in prming to EN140 with Type A fil		protection must be
			tier of better.	
Transfer from/pouring from				
Process control measures	No other specific meas			
Product safety-related measures	: Recommended gloves Material thickness: > 0. Permeation time: > 480			
	Eye protection: Safety	goggles with lateral shielding ([DIN EN 166)	
	If technical extraction o worn.	r ventilation is not possible or i	nadequate, respiratory	protection must be
	Wear a respirator confo	orming to EN140 with Type A fil	lter or better.	
Production of preparation of	or articles by tabletting, cor	npression, extrusion or pelle	tisation	
Process control measures	: No other specific meas	ures identified.		
Product safety-related measures	: Recommended gloves Material thickness: > 0. Permeation time: > 480			
	Eye protection: Safety	goggles with lateral shielding (I	DIN EN 166)	
	If technical extraction o	r ventilation is not possible or in	nadequate, respiratory	protection must be
	worn. Wear a respirator confo	orming to EN140 with Type A fil	lter or better.	
Equipment cleaning and ma	aintenance			
Process control measures	: No other specific meas	ures identified.		
Product safety-related measures	: Recommended gloves Material thickness: > 0. Permeation time: > 480			
	Eye protection: Safety	goggles with lateral shielding (E	DIN EN 166)	
		r ventilation is not possible or i	nadequate, respiratory	protection must be
	worn. Wear a respirator confo	orming to EN140 with Type A fil	lter or better.	
Storage				
Process control measures	: No other specific meas	ures identified.		
	estimation and referen			
	d reference to its source -			
Exposure assessment (environment)	: No exposure assessme	ent presented for the environme	ent.	
Exposure estimation and	d reference to its source -	Workers		
Exposure assessment (human)	: The ECETOC TRA too indicated.	I has been used to estimate wo	rkplace exposures unl	ess otherwise
		17/33		

Conforms to Regulation	(EC) No. 1907/2006 (REACH), A	Annex II				
Annex to the extended Safety Data Sheet (eSDS)						
WorléeKyd S 6003 hv				WORLEE		
Product code	: 111021-03865	Version	: 2	seit 1851		
Date of revision	: 15.02.2013.	Date of printing	: 15.02.2013.	5011 1001		

Section 4: - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment	t
Health	

- : No exposure assessment presented for the environment.
- Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Risk Management Measures are based on qualitative risk characterisation. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II					
Annex to the extended Safety Data Sheet (eSDS) WorléeKyd S 6003 hy						
WorléeKyd S 6003 hv				<u>WORLEE</u>		
Product code	: 111021-03865	Version	: 2	seit 1851		
Date of revision	: 15.02.2013.	Date of printing	: 15.02.2013.	JULT LOUL		

Industrial

hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Section 1: - Title Use Descriptor : Identified use name: Use in laboratories

	•	identified use name. Use in laboratories
		Process Category: PROC10, PROC15
		Substance supplied to that use in form of: In a mixture
		Sector of end use: SU03
		Subsequent service life relevant for that use: No.
		Environmental Release Category: ERC02, ERC04
Health Contributing Scenarios	:	Laboratory activities - PROC15 Cleaning - PROC10
Processes and activities covered by the exposure scenario	:	Use of the substance within laboratory settings, including material transfers and equipment cleaning.

Section 2: - Exposure Scenarios

2.1 Control of environmental exposure

No exposure assessment presented for the environment.

2.2 Control of worker exposure

Concentration of substance in mixture or article	Covers percentage substance in the product up to 100% (unless stated differently).			
Physical state	:	Liquid, vapour pressure < 0.5 kPa at STP.		
Frequency and duration of use	:	Covers daily exposures up to 8 hours (unless stated differently).		
Other given operational conditions affecting workers exposure	:	Assumes use at not more than 20°C above ambient temperature, unless stated differently. Assumes a good basic standard of occupational hygiene has been implemented		
Contributing exposure scenario controlling worker exposure				
Laboratory activities	Laboratory activities			
Process control measures	:	No other specific measures identified.		
Product safety-related measures	:	Recommended gloves should be made of: Nitrile. Material thickness: > 0.4 mm Permeation time: > 480 min		
		Eye protection: Safety goggles with lateral shielding (DIN EN 166)		
		If technical extraction or ventilation is not possible or inadequate, respiratory protection must be worn.		

Wear a respirator conforming to EN140 with Type A filter or better.

Cleaning

Process control measures	: No other specific measures identified.
Product safety-related measures	: Recommended gloves should be made of: Nitrile. Material thickness: > 0.4 mm Permeation time: > 480 min

Eye protection: Safety goggles with lateral shielding (DIN EN 166)

If technical extraction or ventilation is not possible or inadequate, respiratory protection must be worn.

Wear a respirator conforming to EN140 with Type A filter or better.

Conforms to Regulation	on (EC) No. 1907/2006 (REACH),	Annex II		
Annex to the exte	ended Safety Data Sheet (es	SDS)	T I I I I I I I I I I I I I I I I I I I	Worlée®
WorléeKyd S 6003 h	v			WORLEE
Product code	: 111021-03865	Version	: 2	seit 1851
Date of revision	: 15.02.2013.	Date of printing	: 15.02.2013.	

Section 3: - Exposure estimation and reference to its source

Exposure estimation and reference to its source - Environment

Exposure assessment (environment)	: No exposure assessment presented for the environment.
Exposure estimation and	reference to its source - Workers
Exposure assessment (human)	: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Section 4: - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment	: No exposure assessment presented for the environment.
Health	 Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Risk Management Measures are based on qualitative risk characterisation.
	Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Conforms to Regulation	on (EC) No. 1907/2006 (REACH),	Annex II		
Annex to the exte	nded Safety Data Sheet (es	SDS)		Worlée®
WorléeKyd S 6003 hv	1			<u>WORLEE</u>
Product code	: 111021-03865	Version	: 2	seit 1851
Date of revision	: 15.02.2013.	Date of printing	: 15.02.2013.	

Professional

hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Section 1: - Title	
Use Descriptor	 Identified use name: Uses in Coatings Process Category: PROC01, PROC02, PROC03, PROC04, PROC05, PROC08a, PROC08b, PROC10, PROC11, PROC13, PROC15, PROC19 Substance supplied to that use in form of: In a mixture Sector of end use: SU22 Subsequent service life relevant for that use: No. Environmental Release Category: ERC08a, ERC08d
Health Contributing Scenarios	 General exposures (closed systems) - PROC01 Filling/preparation of equipment from drums or containers - PROC02 Preparation of material for application - PROC03 Film formation - air drying (Outdoor use) - PROC04 Film formation - air drying (Indoor use) - PROC04 Preparation of material for application (Indoor) - PROC05 Preparation of material for application (Outdoor) - PROC05 Material transfers - PROC08a, PROC08b Roller, spreader, flow application (Indoor use) - PROC10 Roller, spreader, flow application (Outdoor use) - PROC10 Spraying/fogging by manual application (Indoor use) - PROC11 Spraying/fogging by manual application (Outdoor use) - PROC13 Dipping, immersion and pouring (Indoor use) - PROC13 Laboratory activities - PROC15 Hand application - fingerpaints, pastels, adhesives (Outdoor use) - PROC19
Processes and activities covered by the exposure scenario	: Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, spreader, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities.

Section 2: - Exposure Scenarios

2.1 Control of environmental exposure

No exposure assessment presented for the environment.

2.2 Control of worker exposure

Concentration of substance in mixture or article	:	Covers percentage substance in the product up to 100% (unless stated differently).
Physical state	:	Liquid, vapour pressure < 0.5 kPa at STP.
Frequency and duration of use	:	Covers daily exposures up to 8 hours (unless stated differently).
Other given operational conditions affecting workers exposure	:	Assumes use at not more than 20°C above ambient temperature, unless stated differently. Assumes a good basic standard of occupational hygiene has been implemented

Contributing exposure scenario controlling worker exposure

General exposures (closed systems)

Process control measures : Undertake operation in enclosed conditions.

Annex to the extended	Safety Data S	Sheet (eSDS)			
WorléeKyd S 6003 hv					WORLE
Product code : Date of revision :	111021-03865 15.02.2013.		Version Date of printing	: 2 : 15.02.2013.	seit 1851
Filling/preparation of equip	oment from drum	is or containers			
Process control measures	: Undertake	operation in encl	osed conditions.		
Product safety-related measures	Material thi	ded gloves shou ckness: > 0.4 mr time: > 480 min	ld be made of: Nitrile. n		
	Eye protect	ion: Safety gogg	les with lateral shielding	(DIN EN 166)	
	worn.		ntilation is not possible or ng to EN140 with Type A		y protection must b
Preparation of material for	application				
Process control measures		ecific measures	identified.		
Product safety-related measures	Recommer Material thi		Id be made of: Nitrile.		
	Eye protect	ion: Safety gogg	les with lateral shielding	(DIN EN 166)	
	worn.		ntilation is not possible or		y protection must b
Film formation air drying				filler of better.	
Film formation - air drying		acific macauras	identified		
Process control measures Product safety-related		ecific measures	Id be made of: Nitrile.		
measures	Material thi	ckness: > 0.4 mr 1 time: > 480 min	n		
	Eye protect	ion: Safety gogg	les with lateral shielding	(DIN EN 166)	
	worn.		ntilation is not possible or		y protection must b
			ig to EIN140 with Type A	inter of better.	
Film formation - air drying					
Process control measures		ecific measures			
Product safety-related measures	Material thi	ckness: > 0.4 mr time: > 480 min	Id be made of: Nitrile. n		
	Eye protect	ion: Safety gogg	les with lateral shielding	(DIN EN 166)	
	worn.		ntilation is not possible or		y protection must b
Droporation of motorial for			- 71		
Preparation of material for			identified		
Process control measures		ecific measures			
Product safety-related measures	Material thi	ided gloves shou ckness: > 0.4 mr i time: > 480 min			
	Eye protect	ion: Safety gogg	les with lateral shielding	(DIN EN 166)	
	worn.		ntilation is not possible or		y protection must b

22/33

Conforms to Regulation (EC			***
Annex to the extended	a Safety Data Sheet	(esds)	Worlé
WorléeKyd S 6003 hv Product code	: 111021-03865	Version)
Date of revision	: 15.02.2013.	Date of printing	2 seit 1853 15.02.2013.
Preparation of material fo	r application (Outdoor)		
Process control measures	: No other specific	measures identified.	
Product safety-related measures		oves should be made of: Nitrile. s: > 0.4 mm	
	Eye protection: Sa	afety goggles with lateral shielding (DIN EN 166)
	worn.	tion or ventilation is not possible or conforming to EN140 with Type A f	inadequate, respiratory protection must ilter or better.
Material transfers			
Process control measures	: No other specific	measures identified	
Product safety-related measures		oves should be made of: Nitrile. s: > 0.4 mm	
	Eye protection: Sa	afety goggles with lateral shielding (DIN EN 166)
	worn.	tion or ventilation is not possible or conforming to EN140 with Type A f	inadequate, respiratory protection must ilter or better.
		······································	
Roller, spreader, flow app			
Process control measures	: No other specific		
Product safety-related measures	Material thickness Permeation time:	-	
	Eye protection: Sa	afety goggles with lateral shielding (DIN EN 166)
	worn.		inadequate, respiratory protection must
	Wear a respirator	conforming to EN140 with Type A f	ilter or better.
Roller, spreader, flow app	lication (Outdoor use)		
Process control measures	: No other specific	measures identified.	
Product safety-related measures	: Recommended gl Material thickness Permeation time:	-	
	Eye protection: Sa	afety goggles with lateral shielding (DIN EN 166)
	worn.		inadequate, respiratory protection must
	Wear a respirator	conforming to EN140 with Type A f	ilter or better.
Spraying/fogging by manu	ual application (Indoor u	lse)	
Process control measures	: No other specific	measures identified.	
Product safety-related measures	: Recommended gl Material thickness Permeation time:		
	Eye protection: Sa	afety goggles with lateral shielding (DIN EN 166)
	If technical extrac worn.	tion or ventilation is not possible or	inadequate, respiratory protection must
		conforming to EN140 with Type A f	ilter or better.

Wear a respirator conforming to EN140 with Type A filter or better.

• · · ·	b. 1907/2006 (REACH), Annex II	
	afety Data Sheet (eSDS)	
WorléeKyd S 6003 hv		VORLEE
Product code : Date of revision :	1021-03865 Version 0.02.2013. Date of printing	: 2 seit 1851 : 15.02.2013 .
Spraying/fogging by manu	pplication (Outdoor use)	
Process control measures	: No other specific measures identified.	
Product safety-related measures	: Recommended gloves should be made of: Nitrile. Material thickness: > 0.4 mm Permeation time: > 480 min	
	Eye protection: Safety goggles with lateral shielding) (DIN EN 166)
	If technical extraction or ventilation is not possible of worn. Wear a respirator conforming to EN140 with Type A	
Dipping, immersion and p	ng (Indoor use)	
Process control measures	: No other specific measures identified.	
Product safety-related measures	Recommended gloves should be made of: Nitrile. Material thickness: > 0.4 mm Permeation time: > 480 min	
	Eye protection: Safety goggles with lateral shielding	(DIN EN 166)
	If technical extraction or ventilation is not possible o worn.	r inadequate, respiratory protection must be
	Wear a respirator conforming to EN140 with Type A	filter or better.
Dipping, immersion and p	ng (Outdoor use)	
Process control measures	: No other specific measures identified.	
Product safety-related measures	: Recommended gloves should be made of: Nitrile. Material thickness: > 0.4 mm Permeation time: > 480 min	
	Eye protection: Safety goggles with lateral shielding	(DIN EN 166)
	If technical extraction or ventilation is not possible of worn. Wear a respirator conforming to EN140 with Type A	
Laboratoria activitian		
Laboratory activities Process control measures	: No other specific measures identified.	
Product safety-related measures	 Recommended gloves should be made of: Nitrile. Material thickness: > 0.4 mm Permeation time: > 480 min 	
	Eye protection: Safety goggles with lateral shielding) (DIN EN 166)
	If technical extraction or ventilation is not possible of worn.	
	Wear a respirator conforming to EN140 with Type A	The or detter.
	s, pastels, adhesives (Indoor use)	
Process control measures	: No other specific measures identified.	
Product safety-related measures	: Recommended gloves should be made of: Nitrile. Material thickness: > 0.4 mm Permeation time: > 480 min	
	Eye protection: Safety goggles with lateral shielding	(DIN EN 166)
	If technical extraction or ventilation is not possible of worn. Wear a respirator conforming to EN140 with Type A	

Annex to the exten	ded Sa	fety Data Sheet (e	SDS)	Ι	
WorléeKyd S 6003 hv					<u>Norlée</u>
Product code Date of revision		021-03865 02.2013.	Version Date of printing	: 2 : 15.02.2013.	seit 1851
Hand application - fing	jerpaints	, pastels, adhesives (Outdoor use)		
Process control measur	es :	No other specific me	asures identified.		
Product safety-related measures	:	Recommended glove Material thickness: > Permeation time: > 4	•••••		
		Eye protection: Safet	y goggles with lateral shielding	(DIN EN 166)	
		worn.	n or ventilation is not possible or nforming to EN140 with Type A		protection must be

Section 3: - Exposure estimation and reference to its source

Exposure estimation and reference to its source - Environment

Exposure assessment (environment)	: No exposure assessment presented for the environment.
Exposure estimation an	d reference to its source - Workers
Exposure assessment (human)	: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Section 4: - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment	: No exposure assessment presented for the environment.
Health	: Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Risk Management Measures are based on qualitative risk characterisation. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Conforms to Regulation	(EC) No. 1907/2006 (REACH), Annex I	l		
Annex to the extend	led Safety Data Sheet (eSDS)		۲	Worlée
WorléeKyd S 6003 hv				WORLEE
Product code	: 111021-03865	Version	: 2	seit 1851
Date of revision	: 15.02.2013.	Date of printing	: 15.02.2013.	5010 1001

Professional

hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Section 1: - Title

Use Descriptor	: Identified use name: Use in laboratories
	Process Category: PROC10, PROC15
	Substance supplied to that use in form of: In a mixture
	Sector of end use: SU22
	Subsequent service life relevant for that use: No.
	Environmental Release Category: ERC08a
Health Contributing Scenarios	: Laboratory activities - PROC15 Cleaning - PROC10
Processes and activities covered by the exposure scenario	: Use of small quantities within laboratory settings, including material transfers and equipment cleaning.

Section 2: - Exposure Scenarios

2.1 Control of environmental exposure

No exposure assessment presented for the environment.

2.2 Control of worker exposure

Concentration of substance in mixture or article	:	Covers percentage substance in the product up to 100% (unless stated differently).	
Physical state	:	Liquid, vapour pressure < 0.5 kPa at STP.	
Frequency and duration of use	:	Covers daily exposures up to 8 hours (unless stated differently).	
Other given operational conditions affecting workers exposure	:	Assumes use at not more than 20°C above ambient temperature, unless stated differently. Assumes a good basic standard of occupational hygiene has been implemented	
Contributing exposure scen	na	rio controlling worker exposure	
Laboratory activities			
Process control measures	:	No other specific measures identified.	
Product safety-related measures	:	Recommended gloves should be made of: Nitrile. Material thickness: > 0.4 mm Permeation time: > 480 min	
		Eye protection: Safety goggles with lateral shielding (DIN EN 166)	
		If technical extraction or ventilation is not possible or inadequate, respiratory protection must be	

worn. Wear a respirator conforming to EN140 with Type A filter or better.

Cleaning

Process control measures	: No other specific measures identified.
Product safety-related measures	 Recommended gloves should be made of: Nitrile. Material thickness: > 0.4 mm Permeation time: > 480 min

Eye protection: Safety goggles with lateral shielding (DIN EN 166)

If technical extraction or ventilation is not possible or inadequate, respiratory protection must be worn.

Wear a respirator conforming to EN140 with Type A filter or better.

Conforms to Regulati	on (EC) No. 1907/2006 (REACH),	Annex II		
Annex to the exte	ended Safety Data Sheet (e	SDS)	I	Vorlée ®
WorléeKyd S 6003 h	V			WORLEE
Product code	: 111021-03865	Version	: 2	seit 1851
Date of revision	: 15.02.2013.	Date of printing	: 15.02.2013.	5010 1001

Section 3: - Exposure estimation and reference to its source

Exposure estimation and reference to its source - Environment

Exposure assessment (environment)	: No exposure assessment presented for the environment.
Exposure estimation and r	eference to its source - Workers
Exposure assessment (human)	: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Section 4: - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

for dermal irritant effects. when the Risk Management plemented. racterisation. ons are adopted, then users should
wh lem acte

Conforms to Regulati	on (EC) No. 1907/2006 (REACH),	Annex II		
Annex to the exte	ended Safety Data Sheet (e	SDS)	T	Worlée
WorléeKyd S 6003 h	IV			WORLEE
Product code	: 111021-03865	Version	: 2	
Date of revision	: 15.02.2013.	Date of printing	: 15.02.2013.	Solt ROOR

Consumer

hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Section 1: - Title	
Use Descriptor	 Identified use name: Uses in Coatings Substance supplied to that use in form of: In a mixture Sector of end use: SU21 Subsequent service life relevant for that use: No. Environmental Release Category: ERC08a, ERC08d Market sector by type of chemical product: PC01, PC09a, PC09b, PC09c, PC15, PC18, PC34
Health Contributing Scenarios	 Sealants and adhesives - PC01 Coatings and paints, thinners, paint removers - PC09a Fillers, putties, plasters, modelling clay - PC09b Fillers, putties, plasters, modelling clay - PC09b Finger paints - PC09c Non-metal-surface treatment products - PC15 Ink and toners - PC18 Textile dyes, finishing and impregnating products; including bleaches and other processing aids - PC34
Processes and activities covered by the exposure scenario	: Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including product transfer and preparation, application by brush, spray by hand or similar methods) and equipment cleaning.

Section 2: - Exposure Scenarios

2.1 Control of environmental exposure

No exposure assessment presented for the environment.

2.2 Control of consumer exposure

Physical state	: liquid
Other given operational conditions affecting consumers exposure	: Covers use at ambient temperatures.
Contributing scenario contro	lling consumer exposure for
Sealants and adhesives	
Further specification	: <u>Glues, hobby use</u>
Concentration of substance in mixture or article	: Covers concentrations up to 3 %
Amounts used	[:] For each use event, covers use amounts up to 5 g
Frequency and duration of use/exposure	: Covers use up to 365 days/year Covers exposure up to 4 h
Human factors not influenced by risk management	: Covers skin contact area up to 35.73 cm ²
Other given operational conditions affecting consumers exposure	: Do not use in a room with a room volume below 20 m ³ Covers use under typical household ventilation.

Annex to the extended Safety Data Sheet (eSDS)			Μορι έγ		
WorléeKyd S 6003 hv			Manalan	•	JUNLE
		021-03865)2.2013.	Version Date of printing	: 2 : 15.02.2013	seit 1851
Sealants and adhesives					
Further specification		Glues DIY-use (carp	et glue, tile glue, wood parqu	iet alue)	
Concentration of substance		Covers concentration			
in mixture or article					
Amounts used			covers use amounts up to 6390	g	
Frequency and duration of use/exposure	:	Covers use up to 1 da Covers exposure up t			
Human factors not influenced by risk management	: k	Covers skin contact a	rea up to 110 cm²		
Other given operational conditions affecting consumers exposure	:		with a room volume below 20 r ical household ventilation. adows closed.	n³	
Sealants and adhesives					
Further specification	:	Spraying adhesive			
Concentration of substance in mixture or article	:	Covers concentration	s up to 11 %		
Amounts used	:	For each use event, c	covers use amounts up to 85.05	5 g	
Frequency and duration of use/exposure	:	Covers use up to 6 da Covers exposure up t			
Human factors not influenced by risk management	: k	Covers skin contact a	rea up to 35.73 cm²		
Other given operational conditions affecting consumers exposure	:		with a room volume below 20 r ical household ventilation.	n ³	
Sealants and adhesives					
Further specification	:	<u>Sealants</u>			
Concentration of substance in mixture or article	:	Covers concentration	s up to2.5 %		
Amounts used	:	For each use event, covers use amounts up to 25 g			
Frequency and duration of use/exposure	:	Covers use up to 365 Covers exposure up t			
Human factors not influenced by risk management	: k	Covers skin contact a	rea up to 35.73 cm ²		
Other given operational conditions affecting consumers exposure	:		with a room volume below 20 r ical household ventilation. ndows closed.	n ³	
Coatings and paints, thinne	ers,	paint removers			
Further specification		Water-borne latex w			
Concentration of substance in mixture or article	:	Covers concentration	s up to 1.5 %		
Amounts used	:	For each use event, c	covers use amounts up to 2760	g	
Frequency and duration of use/exposure	:	Covers use up to 4 da Covers exposure up t			
Human factors not influenced by risk management	: k	Covers skin contact a	rea up to 428.75 cm ²		
Other given operational conditions affecting consumers exposure	:		with a room volume below 20 r ical household ventilation. idows closed.	n ³	

Conforms to Regulati	on (EC) No. 1907/2006 (REACH),	Annex II		
Annex to the exte	ended Safety Data Sheet (es	SDS)	T	Vorlée ®
WorléeKyd S 6003 h	v			<u>MORLEE</u>
Product code	: 111021-03865	Version	: 2	seit 1851
Date of revision	: 15.02.2013.	Date of printing	: 15.02.2013.	5010 1001

Coatings and paints, thinners, paint removers

Solvent-rich, high-solid, water-borne paint
: Covers concentrations up to5 %
[:] For each use event, covers use amounts up to 744 g
: Covers use up to 6 days/year Covers exposure up to 2.2 h
: Covers skin contact area up to 428.75 cm ²
: Do not use in a room with a room volume below 20 m ³ Covers use under typical household ventilation. Avoid using when windows closed.

Coatings and paints, thinners, paint removers

Further specification	:	Aerosol spray can
Concentration of substance in mixture or article	:	Covers concentrations up to 50 %
Amounts used	:	For each use event, covers use amounts up to 215 g
Frequency and duration of use/exposure	:	Covers use up to 2 days/year Covers exposure up to 0.33 h
Human factors not influenced by risk management	:	Covers skin contact area up to 6600 cm ²
Other given operational conditions affecting consumers exposure	:	Covers use in a one car garage (34 m ³) under typical ventilation. Do not use in a room with a room volume below 34 m ³

Coatings and paints, thinners, paint removers

Further specification	:	Removers (paint-, glue-, wall paper-, sealant-remover)
Concentration of substance in mixture or article	:	Covers concentrations up to 14 %
Amounts used	:	For each use event, covers use amounts up to 491 g
Frequency and duration of use/exposure	:	Covers use up to 3 days/year Covers exposure up to 2 h
Human factors not influenced by risk management	:	Covers skin contact area up to 857.5 cm ²
Other given operational conditions affecting consumers exposure	:	Do not use in a room with a room volume below 20 m ³ Covers use under typical household ventilation. Avoid using when windows closed.

Fillers, putties, plasters, modelling clay

		S • • • •
Further specification	:	Fillers and putty
Concentration of substance in mixture or article	:	Covers concentrations up to 2 %
Amounts used	:	For each use event, covers use amounts up to 85 g
Frequency and duration of use/exposure	:	Covers use up to 12 days/year Covers exposure up to 4 h
Human factors not influenced by risk management	:	Covers skin contact area up to 35.73 cm ²
Other given operational conditions affecting consumers exposure	:	Do not use in a room with a room volume below 20 m ³ Covers use under typical household ventilation.

-	on (EC) No. 1907/2006 (REACH), ended Safety Data Sheet (es			Worlée®
WorléeKyd S 6003 h	V			WORLEE
Product code Date of revision	: 111021-03865 : 15.02.2013.	Version Date of printing	: 2 : 15.02.2013.	seit 1851

Fillers, putties, plasters, modelling clay

Further specification	:	Plasters and floor equalisers
Concentration of substance in mixture or article	:	Covers concentrations up to 1.8 %
Amounts used	:	For each use event, covers use amounts up to 900 g
Frequency and duration of use/exposure	:	Covers use up to 12 days/year Covers exposure up to 2 h
Human factors not influenced by risk management	:	Covers skin contact area up to 857.5 cm ²
Other given operational conditions affecting consumers exposure	:	Do not use in a room with a room volume below 20 m ³ Covers use under typical household ventilation. Avoid using when windows closed.

Fillers, putties, plasters, modelling clay

Further specification	:	Modelling clay
Concentration of substance in mixture or article	:	Covers concentrations up to 0.027 %
Amounts used	:	For each use event, covers use amounts up to 37500 g For each use event, assumes swallowed amount of 1 g
Frequency and duration of use/exposure	:	Covers use up to 365 days/year Covers exposure up to 8 h
Human factors not influenced by risk management	:	Covers skin contact area up to 254.4 cm ²
Other given operational conditions affecting consumers exposure	:	Do not use in a room with a room volume below 20 m ³ Covers use under typical household ventilation.

Further specification	:	Finger paints
Concentration of substance in mixture or article	:	Covers concentrations up to 0.025 %
Amounts used	:	For each use event, covers use amounts up to 37500 g For each use event, assumes swallowed amount of 1.35 g
Frequency and duration of use/exposure	:	Covers use up to 365 days/year Covers exposure up to 8 h
Human factors not influenced by risk management	:	Covers skin contact area up to 254.4 cm ²
Other given operational conditions affecting consumers exposure	:	Do not use in a room with a room volume below 20 m ³ Covers use under typical household ventilation.

Non-metal-surface treatment products

Further specification	: Water-borne latex wall paint
Concentration of substance in mixture or article	: Covers concentrations up to 1.5 %
Amounts used	: For each use event, covers use amounts up to 2760 g
Frequency and duration of use/exposure	: Covers use up to 4 days/year Covers exposure up to 2.2 h
Human factors not influenced by risk management	: Covers skin contact area up to 428.75 cm ²

Conforms to Regulation ((EC) No. 1907/2006 (REACH),	Annex II		
Annex to the extend	ded Safety Data Sheet (es	SDS)		Worlée®
WorléeKyd S 6003 hv				WORLEE
Product code Date of revision	: 111021-03865 : 15.02.2013.	Version Date of printing	: 2 : 15.02.2013.	seit 1851
Other given operational conditions affecting consumers exposure		with a room volume below 20 m ical household ventilation. ndows closed.	η ³	

Non-metal-surface treatment products

Further specification	:	Solvent-rich, high-solid, water-borne paint
Concentration of substance in mixture or article	:	Covers concentrations up to 5 %
Amounts used	:	For each use event, covers use amounts up to 744 g
Frequency and duration of use/exposure	:	Covers use up to 6 days/year Covers exposure up to 2.2 h
Human factors not influenced by risk management	:	Covers skin contact area up to 428.75 cm ²
Other given operational conditions affecting consumers exposure	:	Do not use in a room with a room volume below 20 m ³ Covers use under typical household ventilation. Avoid using when windows closed.

Non-metal-surface treatment products

Further specification	:	Aerosol spray can
Concentration of substance in mixture or article	:	Covers concentrations up to 50 %
Amounts used	:	For each use event, covers use amounts up to 215 g
Frequency and duration of use/exposure	:	Covers use up to 2 days/year Covers exposure up to 0.33 h
Human factors not influenced by risk management	:	Covers skin contact area up to 6600 cm ²
Other given operational conditions affecting consumers exposure	:	Covers use in a one car garage (34 m ³) under typical ventilation. Do not use in a room with a room volume below 34 m ³

Non-metal-surface treatment products

Further specification Concentration of substance in mixture or article		Removers (paint-, glue-, wall paper-, sealant-remover) Covers concentrations up to 14 %
Amounts used	:	For each use event, covers use amounts up to 491 g
Frequency and duration of use/exposure	:	Covers use up to 3 days/year Covers exposure up to 2 h
Human factors not influenced by risk management	:	Covers skin contact area up to 857.5 cm ²
Other given operational conditions affecting consumers exposure	:	Do not use in a room with a room volume below 20 m ³ Covers use under typical household ventilation. Avoid using when windows closed.

Ink and toners
Further specification

- : Inks and toners
- Concentration of substance
in mixture or articleCovers concentrations up to 0.45 %Amounts used:Frequency and duration of
use/exposure:Covers use up to 365 days/year
Covers exposure up to 2.2 h

Conforms to Regulation	n (EC) I	No. 1907/2006 (REACH)	, Annex II		
Annex to the exte	nded S	Safety Data Sheet (e	SDS)	T	
WorléeKyd S 6003 hv	/				<u>Vorlée</u>
Product code Date of revision		11021-03865 5.02.2013.	Version Date of printing	: 2 : 15.02.2013.	seit 1851
Human factors not inf by risk management	luenced	: Covers skin contact	area up to 71.4 cm ²		
Other given operation conditions affecting consumers exposure	al		n with a room volume below 20 m³ pical household ventilation.		

Textile dyes, finishing and impregnating products; including bleaches and other processing aids

Further specification		yes, finishing and impregnating products; including bleaches and occessing aids
Concentration of substance in mixture or article	Covers co	oncentrations up to 1.1 %
Amounts used	For each	use event, covers use amounts up to 45 g
Frequency and duration of use/exposure		se up to 365 days/year xposure up to 1 h
Human factors not influenced by risk management	Covers sl	kin contact area up to 857.5 cm ²
Other given operational conditions affecting consumers exposure		e in a room with a room volume below 20 m ³ se under typical household ventilation.

Section 3: - Exposure estimation and reference to its source

Exposure estimation and reference to its source - Environment

Exposure assessment (environment)	: Not applicable.	
Exposure estimation and	eference to its source - Consumers	
Exposure assessment (human)	: Not applicable.	

Section 4: - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment Health

- : Not applicable.
- : Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.