• • •	No. 1907/2006 (REACH), Annex II	- United Kingdom (UK)		
SAFETY DATA SHEET				Worlé
VorléeKyd SD 6403	444004 04000	Manajan	•	)
	111021-01838 15.02.2013.	Version Date of printing	: 2 : 15.02.2013.	seit 1851
			-	
	on of the substance/mixture	and of the compa	ny/undertaking	
.1 Product identifier				
Product name	: WorléeKyd SD 6403, 55% in	dearomatized hydroc	arbons 160-200	
	of the substance or mixture and		t i i i i i i i i i i i i i i i i i i i	
Use of the substance/mixtur	e: Raw materials for coatings, se	ealants and adhesives.		
Identified uses				
1) Formulation and (re)pack	ing of substances and mixtures		es of substances as s	uch or in
		preparations* at inc Formulation Imixing	g] of preparations and	/or re-packaging
		(excluding alloys)		
2) Uses in Coatings		Industrial uses: Use preparations* at inc	es of substances as si	uch or in
3) Use in laboratories			es of substances as s	uch or in
(1) Lloop in Coptingo		preparations* at inc		intration advantion
4) Uses in Coatings		entertainment, serv	Public domain (admin rices, craftsmen)	
5) Use in laboratories			Public domain (admin	istration, education
6) Uses in Coatings		entertainment, serv Consumer uses: Pi	rivate households (= g	eneral public =
-,		consumers)		
.3 Details of the supplier o	f the safety data sheet			
Prepared by	: Worlée-Chemie G.m.b.H.			
	Soellerstrasse 14-16			
	D - 21481 Lauenburg Tel. +49 (0)4153 596-0			
	Fax +49 (0)4153 53649			
e-mail address of person	: MSDS@worlee.de			
responsible for this SDS				
National contact	: E.H. Worlee & Co. UK Ltd.			
	Suite 5, 3rd Floor			
	GB - Staffordshire ST5 1 EZ Tel. +441782-714614			
1.4 Emergency telephone n	umber			
National advisory body/Pois				
Telephone number	: +49 (0)551-19240 (Emergenc	y health information)		
SECTION 2: Hazards id	entification			
2.1 Classification of the sub				
	Regulation (EC) No. 1272/2008 [CL			
Flam. Liq. 3, H226 STOT SE 3, H336	On basis of test dat Calculation method	a		
Classification according to D				
	as dangerous according to Directiv	ve 1999/45/EC and its a	amendments.	
Physical/chemical hazards	: Flammable.			

Human health hazards

: Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

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

#### 2.2 Label elements

Hazard pictograms



Signal word

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SAFETY DATA SHEET				1	
WorléeKyd SD 6403					<u>Worlée</u> ®
Product code :	111021-01838	Ver	sion	: 2	seit 1851
Date of revision :	15.02.2013.	Dat	e of printing	: 15.02.2013.	5010 1001
Hazard statements		able liquid and vapou ause drowsiness or di			
Precautionary statements					
Prevention	P210 - Keep a	protective gloves. Wea way from heat, spark plosion-proof electric	s, open flames and	hot surfaces No s	
Response	for breathing. P303 + P361 -	P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.			
Storage	: P235 - Keep c	ool.			
Disposal	: P501 - Dispos international re	e of contents and con egulations.	ntainer in accordance	e with all local, regio	onal, national and
Hazardous ingredients	: hydrocarbons,	C9-C11, n-alkanes, i	soalkanes, cyclics,	< 2% aromatics	
Supplemental label element	s : Contains phtha	alic anhydride. May p	produce an allergic r	eaction.	

#### 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>

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[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 symptom	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	<ul> <li>Extinguishing measures to suit surroundings. In case of fire, use water spray jet, dry extinguishing powder, foam or carbon dioxide.</li> </ul>
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.

#### 5.3 Advice for firefighters

olo Autioc for menginers	
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, p	rotective 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 precaution	ns
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

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Product code Date of revision	: 111021-01838 : 15.02.2013.	Version Date of printing	: 2 : 15.02.20	seit 1851
General information	Containers in which s this product, solution	nding material (sand, diatomite, spilt substance has been collect s and any by-products should at tion and waste disposal legislati	ed must be adequ all times comply	ately labelled. Disposal o with 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		ment.
SECTION 7: Handlir	• •			
7.1 Precautions for safe	e handling			
Protective measures	Take precautionary n working area. The wo technology so as to a	rces of ignition - No smoking. Va neasures against electrostatic di orking procedure should be plan avoid release of hazardous subs uct handling must be reduced to	ischarges. Provide ned as far as allow tances or prevent	e good ventilation of wed by state-of-the-art skin contact. The level of
7.2 Conditions for safe	storage, including any incom	npatibilities		
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 mination. Store in accordance w	carefully resealed s. Use appropriate	and kept upright to e containment to avoid
Packaging materials				
Recommended	: Glass. Stainless stee	el. Coated steel. Unlined steel.		
Seveso II Directive - Re	porting thresholds (in tonnes)			
Danger criteria				
Category		Notification threshold	and MAPP S	afety report threshold
P5c: Flammable liquid C6: Flammable (R10)	ds 2 and 3 not falling under P5a	a or P5b 5000 5000		0000 0000
7.3 Specific end use(s)			· · ·	
Recommendations	: Not available.			
I CECOMMENIATIONS	· NUL avallable.			

#### 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 <sup>3</sup> 15 minutes. TWA: 4 mg/m <sup>3</sup> 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 <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	125 mg/kg bw/ day	Consumers	Systemic
	DNEL	Long term Inhalation	900 mg/m <sup>3</sup>	Consumers	Systemic
	DNEL	Long term Oral	125 mg/kg bw/ day	Consumers	Systemic

SAFETY DATA SHE		), Annex II - United Kingdom (UK)	T	<b>T</b> 7 /
WorléeKyd SD 6403				<u>Vorlée</u>
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PNECs No PECs available.		· · · · · · · · · · · · · · · · · · ·		
8.2 Exposure controls				
Hygiene measures		precautions for handling chemica a cream for preventive skin protect		
Eye/face protection	: Safety goggles with	: Safety goggles with lateral shielding (DIN EN 166)		
Skin protection	: Usual working cloth	nes for the chemical industry, suit	able for the job.	
Hand protection	: If there is a potential for product skin contact, use of gloves tested to e.g. EN 374 will provide sufficient protection. Protective gloves should in any case be tested for workplace-specific suitability (e.g. mechanical resistance, product compatibility, antistatic properties). Comply winstructions 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.		<pre>kplace-specific erties). Comply with use, care and</pre>	

	necessary.
Recommended gloves should be made of	: nitrile
Material thickness	: >0,4 mm
Permeation time	: >480 min
Respiratory protection	: If the occupational exposure limits are exceeded, suitable respiratory protective equipment must be worn. If no occupational exposure limits are defined, sufficiently effective respiratory protective measures must be taken in the presence of aerosols and vapours. Recommended: organic vapour filter (Type A) organic vapour filter (Type AX)

#### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Appearance	
Physical state	: Liquid. [Viscous liquid.]
Colour	: Yellowish.
Odour	: Paraffinic
Boiling point	: 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	: 0,91 g/cm <sup>3</sup> [20 °C]
Efflux time	: >90 s [20 °C] [DIN 4]
Solubility in water	: Not miscible

#### 9.2 Other information

No additional information.

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 hazardo	us reactions
General information	: No hazardous reactions when stored and handled according to prescribed instructions.
10.4 Conditions to avoid	

SAFETY DATA SHI	EET		T	<b>Worlée</b> <sup>®</sup>
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**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 wit	h the skin can cause	e skin irritatio	on.	
Eyes	: May cause mild eye irritation.				
Sensitiser					
Remarks					
Skin	: No evidence of sensitizing effe	cts.			
Respiratory	: No evidence of sensitizing effe	cts.			
Mutagenicity					
Remarks	: No evidence of mutagenic effe	cts.			
Carcinogenicity					
Remarks	: No evidence of carcinogenic ef	fects.			
Reproductive toxicity					
Remarks	: No evidence that the substance	e is toxic for reprodu	ction.		
Teratogenicity					
Remarks	: No evidence that the substance	e may cause birth de	efects.		
Specific target organ toxicit	y (single exposure)				
Product/ingr	edient name	Category		te of osure	Target organs
hydrocarbons, C9-C11, n-alk aromatics	anes, isoalkanes, cyclics, < 2%	Category 3	Not appl	icable.	Narcotic effects
phthalic anhydride		Category 3	Not appl		Respiratory tract irritation

#### 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 SD 6403 Product code : 111021-01838 Date of revision : 15.02.2013. Aspiration hazard Product/ingredient name Result

Flouteningredient hame	IVESUIL
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
Descender The methods are in each of the birds	we debte to start of the start and start 1000

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<sub>oc</sub>)

#### 12.5 Results of PBT and vPvB assessment

PBT	: Not applicable.
vPvB	: Not applicable.

**12.6 Other adverse effects** : No known significant effects or critical hazards.

#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

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

## Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - United Kingdom (UK) SAFETY DATA SHEET WorléeKyd SD 6403 Product code : 111021-01838 Date of revision : 15.02.2013. Version : 15.02.2013.

#### **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	Ш	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	C) No. 1907/2006 (REACH), A	nnex II - United Kingdom (UK)		
SAFETY DATA SHEET	Г		Ţ	Vodi će
WorléeKyd SD 6403				Vorléf
Product code : Date of revision :	111021-01838 15.02.2013.	Version Date of printing	: 2 : 15.02.2013.	seit 1851
SECTION 16: Other inf	formation			
Indicates information that	at has changed from previous	ly issued version.		
Abbreviations and acronyms	CLP = Classification, L DNEL = Derived No E	abelling and Packaging Regula fect Level -specific Hazard statement Effect Concentration	ation [Regulation (EC)	No. 1272/2008]
Full text of abbreviated H statements	: H226 Flammable H302 Harmful if s H304 May be fata H315 Causes skin H317 May cause H318 Causes ser H334 May cause H335 May cause	liquid and vapour. wallowed. I 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 OF [Respiratory tract irritat SPECIFIC TARGET OF [Narcotic effects] - Cat	D - Category 1 GE/ EYE IRRITATION 5 - Category 3 ITIZATION - Category 2 ITIZATION - 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 d R37/38- Irritating to res R42/43- May cause se R66- Repeated expose	use lung damage if swallowed.		
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.

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Annex to the exte	ended Safety Data Sheet (es	SDS)		WORLÉE®
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Industrial

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

Section 1: - Title	
Use Descriptor	<ul> <li>Identified use name: Formulation and (re)packing of substances and mixtures Process Category: PROC01, PROC02, PROC03, PROC04, PROC05, PROC08a, PROC08b, PROC09, PROC14, PROC15</li> <li>Substance supplied to that use in form of: In a mixture Sector of end use: SU03, SU10</li> <li>Subsequent service life relevant for that use: No. Environmental Release Category: ERC02</li> </ul>
Health Contributing Scenarios	<ul> <li>General exposures (closed systems) - PROC01, PROC02, PROC03 General exposures (open systems) - PROC04 Operation is carried out at elevated temperature (&gt; 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</li> </ul>
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	<ul> <li>Recommended gloves should be made of: Nitrile. Material thickness: &gt; 0.4 mm Permeation time: &gt; 480 min</li> <li>Eye protection: Safety goggles with lateral shielding (DIN EN 166)</li> <li>If technical extraction or ventilation is not possible or inadequate, respiratory protection must be</li> </ul>
	worn. Wear a respirator conforming to EN140 with Type A filter or better.

Conforms to Regulation (EC Annex to the extended					Wort
WorléeKyd SD 6403					WORLEE
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General exposures (open	syster	ns)			
Process control measures	:	No other specific mea	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.	or ventilation is not possible or nforming to EN140 with Type A f		bry protection must be
Operation is carried out at	eleva	ted temperature (> 2	20°C above ambient temperatu	re).	
Process control measures			d or ventilated mixing vessels.	,.	
Product safety-related			es should be made of: Nitrile.		
measures	•	Material thickness: > Permeation time: > 44	0.4 mm		
		Eye protection: Safet	y goggles with lateral shielding (	DIN EN 166)	
		If technical extraction worn.	or ventilation is not possible or	inadequate, respirato	ory protection must be
			nforming to EN140 with Type A f	ilter or better.	
Process sampling					
Process control measures	:	No other specific mea	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.	or ventilation is not possible or nforming to EN140 with Type A f		bry protection must be
Laboratory activities					
Process control measures	:	No other specific mea	asures identified.		
Product safety-related measures	:	Recommended glove Material thickness: > Permeation time: > 44			
		Eye protection: Safet	y goggles with lateral shielding (	DIN EN 166)	
		If technical extraction worn.	or ventilation is not possible or	inadequate, respirato	ory protection must be
			nforming to EN140 with Type A f	ilter or better.	
Material transfers					
Process control measures	:	No other specific mea	asures identified.		
Product safety-related measures	:	Recommended glove Material thickness: > Permeation time: > 4			
		Eye protection: Safet	y goggles with lateral shielding (	DIN EN 166)	
		If technical extraction worn.	or ventilation is not possible or	inadequate, respirato	ory protection must be
			nforming to EN140 with Type A f	ilter or better.	

Annex to the extended	Safety Data Sheet (es	SDS)	T	Wart
WorléeKyd SD 6403				WORLEI
Product code : Date of revision :	111021-01838 15.02.2013.	Version Date of printing	: 2 : 15.02.2013.	seit 1851
Mixing operations (open sy	vstems)			
Process control measures	: No other specific mea	asures identified.		
Product safety-related measures	<ul> <li>Recommended glove Material thickness: &gt; Permeation time: &gt; 4</li> </ul>	-		
	Eye protection: Safet	y goggles with lateral shielding (	DIN EN 166)	
	worn.	or ventilation is not possible or in or ventilation is not possible or in or informing to EN140 with Type A fit		v protection must be
Transfer from/pouring from	o containers			
Process control measures	: No other specific mea	asures identified.		
Product safety-related measures	<ul> <li>Recommended glove Material thickness: &gt;</li> <li>Permeation time: &gt; 4</li> </ul>			
	Eye protection: Safet	y goggles with lateral shielding (	DIN EN 166)	
	worn.	or ventilation is not possible or i		v protection must be
Drum/batch transfers				
Process control measures Product safety-related measures	Material thickness: >	es should be made of: Nitrile. 0.4 mm		
	Permeation time: > 4	80 mm y goggles with lateral shielding (l		
		or ventilation is not possible or i	,	protection must be
	worn.	nforming to EN140 with Type A fi		
Production of preparation of	or articles by tabletting, c	ompression, extrusion or pelle	etisation	
Process control measures	: No other specific mea	asures identified.		
Product safety-related measures	: Recommended glove Material thickness: > Permeation time: > 4			
	Eye protection: Safet	y goggles with lateral shielding (	DIN EN 166)	
	If technical extraction worn.	or ventilation is not possible or i	inadequate, respiratory	v protection must be
		nforming to EN140 with Type A fi	ilter or better.	
Clean-down and maintenar				
Process control measures	: No other specific mea	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.	or ventilation is not possible or i		v protection must be
	Wear a respirator cor	nforming to EN140 with Type A fi	ilter or better.	

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Conforms to Regulat	ion (EC) No. 1907/2006 (REACH),	Annex II		
Annex to the ext	ended Safety Data Sheet (e	SDS)	T	
WorléeKyd SD 6403				<u>Vorlée</u> ®
Product code Date of revision	: 111021-01838 : 15.02.2013.	Version Date of printing	: 2 : 15.02.2013.	seit 1851
Storage				
Process control meas	sures : Store substance with	nin 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	<ul> <li>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.</li> </ul>

Conforms to Regulati	on (EC) No. 1907/2006 (REACH),	Annex II		
Annex to the extended Safety Data Sheet (eSDS)				Worlée®
WorléeKyd SD 6403				<u>WORLEE</u>
Product code	: 111021-01838	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	<ul> <li>Identified use name: Uses in Coatings</li> <li>Process Category: PROC01, PROC02, PROC03, PROC04, PROC05, PROC07, PROC08a, PROC08b, PROC09, PROC10, PROC13, PROC14, PROC15</li> <li>Substance supplied to that use in form of: In a mixture</li> <li>Sector of end use: SU03</li> <li>Subsequent service life relevant for that use: No.</li> <li>Environmental Release Category: ERC04</li> </ul>
Health Contributing Scenarios	<ul> <li>General exposures (closed systems) - PROC01</li> <li>General exposures (closed systems) with sample collection - PROC02, PROC03</li> <li>Film formation - force drying, stoving and other technologies - Operation is carried out at elevated temperature (&gt; 20°C above ambient temperature) PROC02</li> <li>Mixing operations (closed systems) - PROC03</li> <li>Film formation - air drying - PROC04</li> <li>Mixing operations (open systems) - PROC05</li> <li>Spraying (automatic/robotic) - PROC07</li> <li>Spraying/fogging by manual application - PROC07</li> <li>Material transfers - PROC08a, PROC08b</li> <li>Roller, spreader, flow application - PROC10</li> <li>Dipping, immersion and pouring - PROC13</li> <li>Laboratory activities - PROC15</li> <li>Transfer from/pouring from containers - PROC09</li> <li>Production of preparation or articles by tabletting, compression, extrusion or pelletisation - PROC14</li> <li>Equipment cleaning and maintenance - PROC08a</li> <li>Storage - PROC01</li> </ul>
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	I Safety Data Sh	eet (eSDS)	Worth
WorléeKyd SD 6403			WORLEE
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General exposures (closed	d systems) with sa	mple collection	
Process control measures	: Store substar	nce within a closed system.	
Product safety-related measures	Material thick	ed gloves should be made of: Nitrile. ness: > 0.4 mm me: > 480 min	
	Eye protectio	n: Safety goggles with lateral shielding	(DIN EN 166)
	worn.	traction or ventilation is not possible or	r inadequate, respiratory protection must be filter or better
Film formation - force drvi			ed out at elevated temperature (> 20°C
above ambient temperatur			
Process control measures	: Store substar	nce within a closed system.	
Product safety-related measures	Material thick	ed gloves should be made of: Nitrile. ness: > 0.4 mm me: > 480 min	
	Eye protectio	n: Safety goggles with lateral shielding	(DIN EN 166)
	If technical exworn.	straction or ventilation is not possible of	r inadequate, respiratory protection must be
	Wear a respire	rator conforming to EN140 with Type A	filter or better.
Mixing operations (closed	systems)		
Process control measures	: Undertake op	eration in enclosed conditions.	
Product safety-related measures	Material thick	ed gloves should be made of: Nitrile. ness: > 0.4 mm me: > 480 min	
	Eye protectio	n: Safety goggles with lateral shielding	(DIN EN 166)
	worn.	traction or ventilation is not possible or rator conforming to EN140 with Type A	r inadequate, respiratory protection must be filter or better.
Film formation - air drying			
Process control measures	: No other spe	cific measures identified.	
Product safety-related measures	Material thick	ed gloves should be made of: Nitrile. ness: > 0.4 mm me: > 480 min	
	Eye protectio	n: Safety goggles with lateral shielding	(DIN EN 166)
	If technical ex worn.	straction or ventilation is not possible of	r inadequate, respiratory protection must be
	Wear a respir	rator conforming to EN140 with Type A	filter or better.
Mixing operations (open s	ystems)		
Process control measures	: No other spec	cific measures identified.	
Product safety-related measures	Material thick	ed gloves should be made of: Nitrile. ness: > 0.4 mm me: > 480 min	
	Eye protectio	n: Safety goggles with lateral shielding	(DIN EN 166)
	If technical exworn.	straction or ventilation is not possible of	r inadequate, respiratory protection must be
	Wear a respi	rator conforming to EN140 with Type A	filter or better.

Annex to the extended	Safety Data Sheet (e	SDS)	IJ	1
WorléeKyd SD 6403		,	N	<b>ORLEI</b>
Product code :	111021-01838	Version	: 2	seit 1851
Date of revision :	15.02.2013.	Date of printing	: 15.02.2013.	
Spraying (automatic/robotic	c)			
Process control measures	: No other specific me	easures identified.		
Product safety-related measures	: Recommended glov Material thickness: > Permeation time: > <			
	Eye protection: Safe	ety goggles with lateral shielding (	DIN EN 166)	
	worn.	n or ventilation is not possible or onforming to EN140 with Type A f		rotection must be
Spraying/fogging by manua	I application			
Process control measures	: No other specific me	easures identified.		
Product safety-related		es should be made of: Nitrile.		
measures	Material thickness: > Permeation time: > 4	> 0.4 mm		
	Eye protection: Safe	ety goggles with lateral shielding (	DIN EN 166)	
	If technical extractio worn.	n or ventilation is not possible or	inadequate, respiratory p	rotection must be
	Wear a respirator co	onforming to EN140 with Type A f	ilter or better.	
Material transfers				
Process control measures	: No other specific me	easures identified.		
Product safety-related measures	: Recommended glov Material thickness: : Permeation time: > 4	-		
	Eye protection: Safe	ety goggles with lateral shielding (	DIN EN 166)	
	worn.	n or ventilation is not possible or onforming to EN140 with Type A f		rotection must be
Roller, spreader, flow appli				
Process control measures	: No other specific me			
Product safety-related measures	: Recommended glov Material thickness: : Permeation time: > 4			
	Eye protection: Safe	ety goggles with lateral shielding (	DIN EN 166)	
	If technical extractio worn.	n or ventilation is not possible or	inadequate, respiratory p	rotection must be
		onforming to EN140 with Type A f	ilter or better.	
Dipping, immersion and po	uring			
Process control measures	: No other specific me	easures identified.		
Product safety-related measures	: Recommended glov Material thickness: : Permeation time: >			
	Eye protection: Safe	ety goggles with lateral shielding (	DIN EN 166)	
	If technical extractio worn.	n or ventilation is not possible or	inadequate, respiratory p	rotection must be
	Wear a respirator co	onforming to EN140 with Type A f	ilter or better.	

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Conforms to Regulation (EC)	) No. 1907/2006 (REACH), A		-	<b>X</b> 7 -
WorléeKyd SD 6403	Salety Data Sheet (eS	03)		<b>VORLÉE</b>
Product code :	111021-01838	Version	: 2	
Date of revision :	15.02.2013.	Date of printing	15.02.2013.	seit 1851
Laboratory activities				
Process control measures	: No other specific mea	sures identified.		
Product safety-related measures	: Recommended gloves Material thickness: > 0 Permeation time: > 48			
	Eye protection: Safety	goggles with lateral shielding (I	DIN EN 166)	
	worn.	or ventilation is not possible or i forming to EN140 with Type A fi		protection must be
<b>T</b> ana a fan fan ar la anaim a fan a				
Transfer from/pouring from		errer i de citte d		
Process control measures	: No other specific mea			
Product safety-related measures	Material thickness: > 0 Permeation time: > 48			
	Eye protection: Safety	goggles with lateral shielding (I	DIN EN 166)	
	If technical extraction worn.	or ventilation is not possible or i	nadequate, respiratory	protection must be
	Wear a respirator con	forming to EN140 with Type A fi	lter or better.	
Production of preparation	or articles by tabletting, co	mpression, extrusion or pelle	tisation	
Process control measures	: No other specific mea	sures identified.		
Product safety-related measures	: Recommended gloves Material thickness: > 0 Permeation time: > 48			
	Eye protection: Safety	goggles with lateral shielding (I	DIN EN 166)	
		or ventilation is not possible or i	nadequate, respiratory	protection must be
	worn. Wear a respirator con	forming to EN140 with Type A fi	lter or better.	
Equipment cleaning and m	aintenance			
Process control measures	: No other specific mea	sures identified.		
Product safety-related measures	: Recommended gloves Material thickness: > 0 Permeation time: > 48			
	Eye protection: Safety	goggles with lateral shielding (I	DIN EN 166)	
		or ventilation is not possible or i	nadequate, respiratory	protection must be
	worn. Wear a respirator con	forming to EN140 with Type A fi	lter or better.	
Storage				
Process control measures	: No other specific mea	sures identified.		
Section 3: - Exposure				
	d reference to its source		1	
Exposure assessment (environment)	: No exposure assessm	nent presented for the environme	ent.	
Exposure estimation and	d reference to its source			
Exposure assessment (human)	: The ECETOC TRA too indicated.	ol has been used to estimate wo	orkplace exposures unl	ess otherwise
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Conforms to Regulation	(EC) No. 1907/2006 (REACH), A	nnex II		
Annex to the extended Safety Data Sheet (eSDS)				Worlée®
WorléeKyd SD 6403				WORLEE
Product code	: 111021-01838	Version	: 2	seit 1851
Date of revision	: 15.02.2013.	Date of printing	: 15.02.2013.	5010 1001

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

Environmer	۱t
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 I	I		
Annex to the extended Safety Data Sheet (eSDS)				Worlée®
WorléeKyd SD 6403				<u>WORLEE</u>
Product code	: 111021-01838	Version	: 2	seit 1851
Date of revision	: 15.02.2013.	Date of printing	: 15.02.2013.	5010 1001

Industrial

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

### Section 1: - Title Use Descriptor Identified use name: Use in laboratories Process Category: PROC10\_PROC15

	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 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 autoration or contilation is not possible or incidentate, reprinter, protection must be

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	<ul> <li>Recommended gloves should be made of: Nitrile.</li> <li>Material thickness: &gt; 0.4 mm</li> <li>Permeation time: &gt; 480 min</li> </ul>

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	<b>Vorlée</b> ®
WorléeKyd SD 6403				WORLEE
Product code	: 111021-01838	Version	: 2	seit 1851
Date of revision	: 15.02.2013.	Date of printing	: 15.02.2013.	5510 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	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	ended Safety Data Sheet (e	SDS)	T	Worlée
WorléeKyd SD 6403				WORLEE
Product code	: 111021-01838	Version	: 2	seit 1851
Date of revision	: 15.02.2013.	Date of printing	: 15.02.2013.	5511 1001

Professional

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

Section 1: - Title	
Use Descriptor	<ul> <li>Identified use name: Uses in Coatings         Process Category: PROC01, PROC02, PROC03, PROC04, PROC05, PROC08a, PROC08b,         PROC10, PROC11, PROC13, PROC15, PROC19     </li> <li>Substance supplied to that use in form of: In a mixture         Sector of end use: SU22     </li> <li>Subsequent service life relevant for that use: No.         Environmental Release Category: ERC08a, ERC08d     </li> </ul>
Health Contributing Scenarios	<ul> <li>General exposures (closed systems) - PROC01</li> <li>Filling/preparation of equipment from drums or containers - PROC02</li> <li>Preparation of material for application - PROC03</li> <li>Film formation - air drying (Outdoor use) - PROC04</li> <li>Film formation - air drying (Indoor use) - PROC04</li> <li>Preparation of material for application (Indoor) - PROC05</li> <li>Preparation of material for application (Outdoor) - PROC05</li> <li>Material transfers - PROC08a, PROC08b</li> <li>Roller, spreader, flow application (Indoor use) - PROC10</li> <li>Roller, spreader, flow application (Outdoor use) - PROC10</li> <li>Spraying/fogging by manual application (Indoor use) - PROC11</li> <li>Spraying/fogging by manual application (Outdoor use) - PROC13</li> <li>Dipping, immersion and pouring (Indoor use) - PROC13</li> <li>Laboratory activities - PROC15</li> <li>Hand application - fingerpaints, pastels, adhesives (Outdoor use) - PROC19</li> </ul>
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 Sheet (e	SDS)		$W_{\alpha \rightarrow -} -$
WorléeKyd SD 6403			,		WORLEI
Product code : Date of revision :	111021- 15.02.20		Version Date of printing	: 2 : 15.02.2013.	seit 1851
Filling/preparation of equip	oment fro	m drums or con	tainers		
Process control measures	: Uno	dertake operation	in enclosed conditions.		
Product safety-related measures	Mat	commended glove terial thickness: > meation time: > 4			
	Eye	e protection: Safe	ty goggles with lateral shielding (	(DIN EN 166)	
	wor	'n.	n or ventilation is not possible or onforming to EN140 with Type A f		ory protection must be
Preparation of material for	applicati	on			
Process control measures	: No	other specific me	easures identified.		
Product safety-related measures	Mat	commended glove terial thickness: > meation time: > 4			
	Eye	e protection: Safe	ty goggles with lateral shielding (	(DIN EN 166)	
	wor	'n.	n or ventilation is not possible or onforming to EN140 with Type A f		ory protection must be
Film formation - air drying					
Process control measures			asures identified.		
Product safety-related measures	: Reo Mat		es should be made of: Nitrile.		
	Eye	protection: Safe	ty goggles with lateral shielding (	(DIN EN 166)	
	wor	'n.	n or ventilation is not possible or		ory protection must be
	We	ar a respirator co	onforming to EN140 with Type A f	filter or better.	
Film formation - air drying	(Indoor u	se)			
Process control measures	: No	other specific me	easures identified.		
Product safety-related measures	Mat	commended glove terial thickness: > meation time: > 4			
	Eye	protection: Safe	ty goggles with lateral shielding (	(DIN EN 166)	
	wor	'n.	n or ventilation is not possible or onforming to EN140 with Type A f		ory protection must be
Preparation of material for	annlicati	on (Indoor)			
Process control measures			asures identified.		
Product safety-related measures	: Reo Mat		es should be made of: Nitrile. • 0.4 mm		
	Eye	protection: Safe	ty goggles with lateral shielding (	(DIN EN 166)	
	wor	'n.	n or ventilation is not possible or onforming to EN140 with Type A f		ory protection must b

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Annex to the extended	d Saf	ety Data Sheet (eS	DS)		Vorléi
WorléeKyd SD 6403		004 04000	Manzian	/	
Product code Date of revision		021-01838 )2.2013.	Version Date of printing	: 2 : 15.02.2013.	seit 1851
Preparation of material fo	r appl	ication (Outdoor)			
Process control measures	:	No other specific meas	sures identified.		
Product safety-related measures	:	Recommended gloves Material thickness: > 0 Permeation time: > 48			
		Eye protection: Safety	goggles with lateral shielding (D	DIN EN 166)	
		worn.	or ventilation is not possible or ir forming to EN140 with Type A fil		protection must b
Material transfers					
Process control measures		No other specific meas			
Product safety-related measures	:	Recommended gloves Material thickness: > 0 Permeation time: > 48			
		Eye protection: Safety	goggles with lateral shielding (D	DIN EN 166)	
		worn.	or ventilation is not possible or ir forming to EN140 with Type A fil		protection must b
Roller, spreader, flow app	licatio	on (Indoor use)			
Process control measures		No other specific measure	sures identified.		
Product safety-related measures	:	•	s should be made of: Nitrile. ).4 mm		
		Eye protection: Safety	goggles with lateral shielding (D	DIN EN 166)	
		If technical extraction worn.	or ventilation is not possible or ir	nadequate, respiratory	protection must b
		Wear a respirator conf	forming to EN140 with Type A fil	ter or better.	
Roller, spreader, flow app	licatio	on (Outdoor use)			
Process control measures	:	No other specific measured	sures identified.		
Product safety-related measures	:	Recommended gloves Material thickness: > 0 Permeation time: > 48			
		Eye protection: Safety	goggles with lateral shielding (D	DIN EN 166)	
		worn.	or ventilation is not possible or ir forming to EN140 with Type A fil		protection must b
			5 71		
Spraying/fogging by man			ouroo idoptified		
Process control measures	:	No other specific meas			
Product safety-related measures	:	Recommended gloves Material thickness: > 0 Permeation time: > 48			
		Eye protection: Safety	goggles with lateral shielding (D	DIN EN 166)	
		If technical extraction worn.	or ventilation is not possible or ir	nadequate, respiratory	protection must b
			forming to EN140 with Type A fil	ter or better.	

Conforms to Regulation (EC			***	-
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Spraying/fogging by manu	l application (Outdoo	or use)		
Process control measures	: No other specific	measures identified.		
Product safety-related measures	: Recommended g Material thickness Permeation time:			
	Eye protection: S	afety goggles with lateral shielding (	DIN EN 166)	
	worn.	ction or ventilation is not possible or r conforming to EN140 with Type A f		tection must be
Dipping, immersion and po	uring (Indoor use)			
Process control measures	: No other specific	measures identified.		
Product safety-related measures	: Recommended g Material thickness Permeation time:			
	Eye protection: S	afety goggles with lateral shielding (	DIN EN 166)	
	worn.	ction or ventilation is not possible or		tection must be
	Wear a respirator	r conforming to EN140 with Type A f	ilter or better.	
Dipping, immersion and po	uring (Outdoor use)			
Process control measures	: No other specific	measures identified.		
Product safety-related measures	: Recommended g Material thicknes Permeation time:			
	Eye protection: S	afety goggles with lateral shielding (	DIN EN 166)	
	worn.	ction or ventilation is not possible or r conforming to EN140 with Type A f		tection must be
Laboratory activities Process control measures	. No other specific	measures identified.		
Product safety-related measures	· ·	loves should be made of: Nitrile. s: > 0.4 mm		
	Eye protection: S	afety goggles with lateral shielding (	DIN EN 166)	
	worn.	ction or ventilation is not possible or		tection must be
	Wear a respirator	r conforming to EN140 with Type A f	ilter or better.	
Hand application - fingerpa				
Process control measures		measures identified.		
Product safety-related measures	: Recommended g Material thickness Permeation time:			
	Eye protection: S	afety goggles with lateral shielding (	DIN EN 166)	
	worn.	ction or ventilation is not possible or r conforming to EN140 with Type A f		tection must be

Annex to the extended Safety Data Sheet (eSDS)				T	Vodi će
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Hand application - fir	ngerpaints	s, pastels, adhesives	(Outdoor use)		
Process control measu	ures	: No other specific me	easures identified.		
Product safety-related measures		: Recommended glov Material thickness: > Permeation time: > 4	•••••		
		Eye protection: Safe	ety goggles with lateral shielding	(DIN EN 166)	
		worn.	n or ventilation is not possible or onforming 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	<ul> <li>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.</li> <li>Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.</li> </ul>

Conforms to Regulation	on (EC) No. 1907/2006 (REACH),	Annex II		
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Professional

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

#### Section 1: - Title

Use Descriptor	<ul> <li>Identified use name: Use in laboratories</li> <li>Process Category: PROC10, PROC15</li> <li>Substance supplied to that use in form of: In a mixture</li> <li>Sector of end use: SU22</li> <li>Subsequent service life relevant for that use: No.</li> <li>Environmental Release Category: ERC08a</li> </ul>
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.

worn.

#### 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

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	<ul> <li>Recommended gloves should be made of: Nitrile.</li> <li>Material thickness: &gt; 0.4 mm</li> <li>Permeation time: &gt; 480 min</li> </ul>

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.

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#### 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		
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Consumer

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

Section 1: - Title	
Use Descriptor	<ul> <li>Identified use name: Uses in Coatings</li> <li>Substance supplied to that use in form of: In a mixture</li> <li>Sector of end use: SU21</li> <li>Subsequent service life relevant for that use: No.</li> <li>Environmental Release Category: ERC08a, ERC08d</li> <li>Market sector by type of chemical product: PC01, PC09a, PC09b, PC09c, PC15, PC18, PC34</li> </ul>
Health Contributing Scenarios	<ul> <li>Sealants and adhesives - PC01</li> <li>Coatings and paints, thinners, paint removers - PC09a</li> <li>Fillers, putties, plasters, modelling clay - PC09b</li> <li>Fillers, putties, plasters, modelling clay - PC09b</li> <li>Fillers, putties, plasters, modelling clay - PC09b</li> <li>Finger paints - PC09c</li> <li>Non-metal-surface treatment products - PC15</li> <li>Ink and toners - PC18</li> <li>Textile dyes, finishing and impregnating products; including bleaches and other processing aids - PC34</li> </ul>
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	llir	ng 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 <sup>2</sup>
Other given operational conditions affecting consumers exposure	:	Do not use in a room with a room volume below 20 m <sup>3</sup> Covers use under typical household ventilation.

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Sealants and adhesives					
Further specification		Glues DIY-use (carp	et glue, tile glue, wood parque	et alue)	
Concentration of substance		Covers concentration		<u>et gidej</u>	
in mixture or article	•	Covoro concontration			
Amounts used	:	For each use event. c	covers use amounts up to 6390	a	
Frequency and duration of		Covers use up to 1 da	•	5	
use/exposure		Covers exposure up t			
Human factors not influenced	: t	Covers skin contact a	rea up to 110 cm <sup>2</sup>		
by risk management					
Other given operational	:		with a room volume below 20 m	<sub>3</sub>	
conditions affecting			ical household ventilation.		
consumers exposure		Avoid using when win	idows ciosed.		
Sealants and adhesives					
Further specification		Spraying adhesive			
Concentration of substance		Covers concentration	s up to 11 %		
in mixture or article	•		ο αριο τι 70		
Amounts used	:	For each use event. c	covers use amounts up to 85.05	q	
Frequency and duration of		Covers use up to 6 da	•	3	
use/exposure		Covers exposure up t			
Human factors not influenced	: k	Covers skin contact a	irea up to 35.73 cm <sup>2</sup>		
by risk management					
Other given operational	:		with a room volume below 20 m	3	
conditions affecting consumers exposure		Covers use under typ	ical household ventilation.		
•					
Sealants and adhesives					
Further specification	:	<u>Sealants</u>			
Concentration of substance	:	Covers concentration	s up to2.5 %		
in mixture or article					
Amounts used	:	For each use event, c	covers use amounts up to 25 g		
Frequency and duration of	:	Covers use up to 365			
use/exposure		Covers exposure up t	o1h		
Human factors not influenced	: k	Covers skin contact a	rea up to 35.73 cm <sup>2</sup>		
by risk management				_	
Other given operational conditions affecting	:		with a room volume below 20 m ical household ventilation.	J <sup>3</sup>	
consumers exposure		Avoid using when win			
Coatings and paints, thinne	ers,	paint removers			
Further specification	:	Water-borne latex w	all paint		
Concentration of substance	:	Covers concentration	s up to 1.5 %		
in mixture or article Amounts used				-	
			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	4 ·	Covers skin contact a			
by risk management		Severe oran contact a			
Other given operational	:		with a room volume below 20 m	1 <sup>3</sup>	
conditions affecting			ical household ventilation.		
consumers exposure		Avoid using when win	ndows closed.		

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#### Coatings and paints, thinners, paint removers

Solvent-rich, high-solid, water-borne paint
: Covers concentrations up to5 %
<sup>:</sup> 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 <sup>2</sup>
<ul> <li>Do not use in a room with a room volume below 20 m<sup>3</sup></li> <li>Covers use under typical household ventilation.</li> <li>Avoid using when windows closed.</li> </ul>

#### Coatings and paints, thinners, paint removers

Further specification Concentration of substance in mixture or article		Aerosol spray can 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 <sup>2</sup>
Other given operational conditions affecting consumers exposure	:	Covers use in a one car garage (34 m <sup>3</sup> ) under typical ventilation. Do not use in a room with a room volume below 34 m <sup>3</sup>

#### 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 <sup>2</sup>
Other given operational conditions affecting consumers exposure	:	Do not use in a room with a room volume below 20 m <sup>3</sup> Covers use under typical household ventilation. Avoid using when windows closed.

#### Fillers, putties, plasters, modelling clay

	• •
:	Fillers and putty
:	Covers concentrations up to 2 %
:	For each use event, covers use amounts up to 85 g
:	Covers use up to 12 days/year Covers exposure up to 4 h
:	Covers skin contact area up to 35.73 cm <sup>2</sup>
:	Do not use in a room with a room volume below 20 m <sup>3</sup> Covers use under typical household ventilation.

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#### 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 <sup>2</sup>
Other given operational conditions affecting consumers exposure	:	Do not use in a room with a room volume below 20 m <sup>3</sup> 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 <sup>2</sup>
Other given operational conditions affecting consumers exposure	:	Do not use in a room with a room volume below 20 m <sup>3</sup> 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 <sup>2</sup>
Other given operational conditions affecting consumers exposure	:	Do not use in a room with a room volume below 20 m <sup>3</sup> 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 <sup>2</sup>

Conforms to Regulation (	(EC) No. 1907/2006 (REACH),	Annex II		
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Other given operational conditions affecting consumers exposure		with a room volume below 20 m ical household ventilation. adows closed.	13	

#### 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 <sup>2</sup>
Other given operational conditions affecting consumers exposure	:	Do not use in a room with a room volume below 20 m <sup>3</sup> 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 <sup>2</sup>
Other given operational conditions affecting consumers exposure	:	Covers use in a one car garage (34 m <sup>3</sup> ) under typical ventilation. Do not use in a room with a room volume below 34 m <sup>3</sup>

#### Non-metal-surface treatment products

Further specification Concentration of substance		Removers (paint-, glue-, wall paper-, sealant-remover) Covers concentrations up to 14 %
in mixture or article 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 <sup>2</sup>
Other given operational conditions affecting consumers exposure	:	Do not use in a room with a room volume below 20 m <sup>3</sup> 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 article	: Covers concentrations up to 0.45 %
Amounts used	<sup>:</sup> For each use event, covers use amounts up to 40 g
Frequency and duration of use/exposure	: Covers use up to 365 days/year Covers exposure up to 2.2 h

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Human factors not infl by risk management	luenced : Covers skin cor	ntact area up to 71.4 cm <sup>2</sup>		
Other given operation conditions affecting consumers exposure		room with a room volume below 20 r ler typical household ventilation.	m³	

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

Further specification	tile dyes, finishi er processing a	ing and impregnating products; including bleaches and ids
Concentration of substance in mixture or article	vers concentration	ns up to 1.1 %
Amounts used	each use event,	covers use amounts up to 45 g
Frequency and duration of use/exposure	vers use up to 36 vers exposure up	
Human factors not influenced by risk management	vers skin contact	area up to 857.5 cm <sup>2</sup>
Other given operational conditions affecting consumers exposure		n with a room volume below 20 m <sup>3</sup> pical 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.